- X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM4/1-6600103-00001XX Real01 Answers for No. 9844

$$
\text { Ans } 1=[a=-1, b=-1, c=1]
$$

$$
\begin{gathered}
\text { Ans } 2=\left[\begin{array}{cc}
1=\left[\mathrm{p}(x)+\mathrm{q}(x)=4 x^{2}+5 x-3\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-2 x^{2}-5 x-5\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=2 x^{2}+5 x+5\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-9 x^{2}-20 x-16\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=3 x^{4}+5 x^{3}-11 x^{2}-20 x-4\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}-8 x^{2}+16\right]
\end{array}\right] \\
\text { Ans } 3=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{5}-8 x^{4}+20 x^{3}-19 x^{2}+12 x-12\right] \\
\text { Ans } 4=[a+b=-7, a b=-8], \\
\text { Ans } 6=\left[\mathrm{P}(x)=x^{4}-5 x^{3}+2 x^{2}-8=\left[\begin{array}{l}
a=7, b=7, a b=35]
\end{array}\right.\right. \\
\text { Ans } 7=\left[\begin{array}{cc}
1=\left[\begin{array}{c}
\mathrm{Q}(x)=2 x^{4}+x^{2}+3 x+2 \\
\mathrm{R}(x)=-3
\end{array}\right] & .2=\left[\begin{array}{c}
\mathrm{Q}(x)=2 x^{2}+1 \\
\mathrm{R}(x)=3 x^{2}+2 x-3
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=6 x-5
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{3}-9 x \\
\mathrm{R}(x)=27 x-2
\end{array}\right] & 4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+6 x^{2}+21 x+63 \\
\mathrm{R}(x)=186
\end{array}\right] \\
.6=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+6 \\
\mathrm{R}(x)=16
\end{array}\right]
\end{array}\right]
\end{gathered}
$$

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$$
\begin{aligned}
& \text { Ansl }=[a=3, b=0, c=1] \\
& A n s 2=\left[\begin{array}{cc}
.1=\left[\mathrm{p}(x)+\mathrm{q}(x)=4 x^{2}+5 x-3\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-2 x^{2}-5 x+1\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=2 x^{2}+5 x-1\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-7 x^{2}-15 x+4\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=3 x^{4}+5 x^{3}-5 x^{2}-5 x+2\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}-2 x^{2}+1\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{5}+7 x^{4}+6 x^{3}-30 x^{2}-18 x+36\right] \\
& \text { Ans4 }=[a+b=14, a b=48], \quad, \quad \text { Ans } 5=[a=3, b=7, a b=21] \\
& \text { Ans } 6=\left[\mathrm{P}(x)=x^{4}+x^{3}-2 x^{2}+4 x+7\right] \\
& A n s 7=\left[\begin{array}{cc}
. l=\left[\begin{array}{cc}
\mathrm{Q}(x)=3 x^{3}+2 x^{2}+4 x+2 \\
\mathrm{R}(x)=x-2
\end{array}\right. & .2=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{2}+2 x+4 \\
\mathrm{R}(x)=2 x^{2}+x-2
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=4 x-2
\end{array}\right] & .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+5 x^{2}+11 x+32 \\
\mathrm{R}(x)=99
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=4 x^{3}+8 x \\
\mathrm{R}(x)=16 x+3
\end{array}\right] & .6=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+6 \\
\mathrm{R}(x)=7
\end{array}\right]
\end{array}\right]
\end{aligned}
$$

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$$
\begin{aligned}
& \text { Ansl }=[a=-4, b=4, c=2]
\end{aligned}
$$



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$$
\begin{aligned}
& \text { Ansl }=[a=-2, b=3, c=3] \\
& A n s 2=\left[\begin{array}{cc}
. l=\left[\mathrm{p}(x)+\mathrm{q}(x)=5 x^{2}-3 x+9\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-3 x^{2}+3 x-1\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=3 x^{2}-3 x+1\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-7 x^{2}+9 x+5\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=4 x^{4}-3 x^{3}+21 x^{2}-12 x+20\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}+8 x^{2}+16\right]
\end{array}\right] \\
& A n s 3=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{5}+9 x^{4}+16 x^{3}-18 x^{2}+8 x-8\right] \\
& \text { Ans4 }=[a+b=-7, a b=6], \quad, A n s 5=[a=-7, b=3, a b=-21] \\
& \text { Ans6 }=\left[\mathrm{P}(x)=x^{4}+3 x^{3}-5 x^{2}-10 x+4\right] \\
& A n s 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{4}+3 x^{2}+2 x-1 \\
\mathrm{R}(x)=-4
\end{array}\right. & .2=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{2}+3 \\
\mathrm{R}(x)=2 x^{2}-x-4
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=-3 x+6
\end{array}\right] & .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}-x^{2}+6 x-19 \\
\mathrm{R}(x)=58
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=2 x^{3}+2 x \\
\mathrm{R}(x)=2 x-3
\end{array}\right] & .6=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+7 \\
\mathrm{R}(x)=17
\end{array}\right]
\end{array}\right]
\end{aligned}
$$

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$$
\begin{aligned}
& \text { Ansl }=[a=2, b=2, c=0] \\
& \text { Ans } 2=\left[\begin{array}{cc}
. l=\left[\mathrm{p}(x)+\mathrm{q}(x)=3 x^{2}-2 x+3\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-x^{2}+2 x+1\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=x^{2}-2 x-1\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-2 x^{2}+6 x+5\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=2 x^{4}-2 x^{3}+5 x^{2}-4 x+2\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}+4 x^{2}+4\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{6}-5 x^{5}+12 x^{3}+4 x^{2}-12 x-24\right] \\
& \text { Ans } 4=[a+b=-3, a b=-18], \quad, \quad \text { Ans } 5=[a=-3, b=2, a b=-6] \\
& \text { Ans } 6=\left[\mathrm{P}(x)=x^{4}-x^{3}-3 x^{2}+6 x+2\right] \\
& A n s 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=2 x^{4}-4 x^{3}-x^{2}+3 x \\
\mathrm{R}(x)=-3
\end{array}\right. & .2=\left[\begin{array}{c}
\mathrm{Q}(x)=2 x-4 \\
\mathrm{R}(x)=-x^{3}+3 x^{2}-3
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=-4 x-6
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{3}+3 x \\
\mathrm{R}(x)=3 x-2
\end{array}\right] & .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}-2 x^{2}+8 x-24 \\
\mathrm{R}(x)=76
\end{array}\right]
\end{array}\right]
\end{aligned}
$$



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$$
\begin{aligned}
& \text { Ans } 1=[a=1, b=-3, c=-3] \\
& \text { Ans2 }=\left[\begin{array}{cc}
.1=\left[\mathrm{p}(x)+\mathrm{q}(x)=4 x^{2}-2 x-5\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-2 x^{2}+2 x-3\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=2 x^{2}-2 x+3\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-12 x^{2}+10 x-7\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=3 x^{4}-2 x^{3}-13 x^{2}+8 x+4\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}-8 x^{2}+16\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{6}-5 x^{5}+3 x^{4}-6 x^{3}+25 x^{2}+7 x-15\right] \\
& \text { Ans } 4=[a+b=-10, a b=9], \quad \text { Ans } 5=[a=-3, b=1, a b=-3] \\
& \text { Ans } 6=\left[\mathrm{P}(x)=x^{4}+6 x^{3}-4 x^{2}-19 x+3\right]
\end{aligned}
$$



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$$
\text { Ansl }=[a=4, b=-3, c=-4]
$$

$$
\begin{aligned}
& A n s 2=\left[\begin{array}{cc}
. l=\left[\mathrm{p}(x)+\mathrm{q}(x)=5 x^{2}-3 x+1\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-3 x^{2}+3 x+9\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=3 x^{2}-3 x-9\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-18 x^{2}+15 x+30\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=4 x^{4}-3 x^{3}+16 x^{2}-15 x-20\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}+10 x^{2}+25\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{5}-8 x^{4}+11 x^{3}+15 x^{2}-15 x-12\right] \\
& \text { Ans } 4=[a+b=-1, a b=-12], \quad \text { Ans } 5=[a=6, b=4, a b=24] \\
& \text { Ans6 }=\left[\mathrm{P}(x)=x^{4}-4 x^{3}+7 x^{2}-23 x+2\right] \\
& \left.A n s 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{4}+x^{3}-3 x^{2}+4 \\
\mathrm{R}(x)=-2
\end{array}\right.
\end{array}\right] \quad .2=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{2}+x-3 \\
\mathrm{R}(x)=4 x-2
\end{array}\right] .\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=-7 x+7
\end{array}\right] \quad .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+2 x^{2}-6 x+20 \\
\mathrm{R}(x)=-65
\end{array}\right]\right]\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+3 \\
\mathrm{R}(x)=-8
\end{array}\right] \quad .6=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{3}-6 x \\
\mathrm{R}(x)=12 x-2
\end{array}\right] \quad . \quad
\end{aligned}
$$

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$$
\begin{aligned}
& \text { Ansl }=[a=3, b=-2, c=-3] \\
& \text { Ans } 2=\left[\begin{array}{cc}
.1=\left[\mathrm{p}(x)+\mathrm{q}(x)=3 x^{2}-3 x-3\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-x^{2}+3 x-5\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=x^{2}-3 x+5\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-2 x^{2}+9 x-19\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=2 x^{4}-3 x^{3}-7 x^{2}+12 x-4\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}-8 x^{2}+16\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{5}-3 x^{4}-22 x^{3}-10 x^{2}-12 x-8\right] \\
& \text { Ans } 4=[a+b=1, a b=-12], \quad, \quad \text { Ans } 5=[a=-6, b=5, a b=-30] \\
& \text { Ans6 }=\left[\mathrm{P}(x)=x^{4}+5 x^{3}-3 x^{2}-11 x-7\right] \\
& \text { Ans } 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{3}+4 x^{2}+4 x+1 \\
\mathrm{R}(x)=4 x+3
\end{array}\right] & .2=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x+4 \\
\mathrm{R}(x)=4 x^{3}+x^{2}+4 x+3
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=7 x+5
\end{array}\right] & .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+8 x^{2}+20 x+57 \\
\mathrm{R}(x)=176
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=4 x^{3}-12 x \\
\mathrm{R}(x)=36 x+3
\end{array}\right] & .6=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+7 \\
\mathrm{R}(x)=10
\end{array}\right]
\end{array}\right]
\end{aligned}
$$

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X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM4/1-6600103-00009XX Real01 Answers for No. 9920

$$
\begin{aligned}
& \text { Ansl }=[a=1, b=4, c=-2] \\
& \text { Ans } 2=\left[\begin{array}{cc}
.1=\left[\mathrm{p}(x)+\mathrm{q}(x)=4 x^{2}-5 x\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-2 x^{2}+5 x+4\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=2 x^{2}-5 x-4\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-3 x^{2}+10 x+10\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=3 x^{4}-5 x^{3}+4 x^{2}-10 x-4\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}+4 x^{2}+4\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{5}-39 x^{3}+13 x^{2}-30 x+15\right] \\
& \text { Ans } 4=[a+b=7, a b=-8], \quad, \quad \text { Ans } 5=[a=-1, b=5, a b=-5] \\
& \text { Ans6 }=\left[\mathrm{P}(x)=x^{4}-7 x^{3}+6 x^{2}-40 x+7\right] \\
& A n s 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+3 x^{2}+4 \\
\mathrm{R}(x)=0
\end{array}\right] & .2=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{2}+3 x \\
\mathrm{R}(x)=4 x^{2}
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=-4 x+7
\end{array}\right] & .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}-x^{2}-3 \\
\mathrm{R}(x)=10
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=4 x^{3}+12 x \\
\mathrm{R}(x)=36 x+5
\end{array}\right] & .6=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+7 \\
\mathrm{R}(x)=2
\end{array}\right]
\end{array}\right]
\end{aligned}
$$

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X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM4/1-6600103-00010XX Real01 Answers for No. 10000

$$
\begin{aligned}
& \text { Ansl }=[a=1, b=2, c=-2]
\end{aligned}
$$



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$$
\begin{aligned}
& A n s 1=[a=1, b=5, c=-3] \\
& \text { Ans } 2=\left[\begin{array}{cc}
. l=\left[\mathrm{p}(x)+\mathrm{q}(x)=5 x^{2}+x-3\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-3 x^{2}-x+1\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=3 x^{2}+x-1\right] & .4=\left[\operatorname{mp}(x)-\mathrm{nq}(x)=-7 x^{2}-3 x+1\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=4 x^{4}+x^{3}-6 x^{2}-x+2\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}-2 x^{2}+1\right]
\end{array}\right] \\
& \text { Ans } 3=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{5}+10 x^{4}+19 x^{3}-14 x^{2}+36 x-30\right] \\
& \text { Ans } 4=[a+b=-13, a b=42], \quad, \quad \text { Ans } 5=[a=-4, b=1, a b=-4] \\
& \text { Ans6 }=\left[\mathrm{P}(x)=x^{4}+2 x^{3}+6 x^{2}+16 x-7\right] \\
& A n s 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+4 x^{2}-2 x+1 \\
\mathrm{R}(x)=-3 x-2
\end{array}\right] & .2=\left[\begin{array}{l}
\mathrm{Q}(x)=x^{2}+4 x-2 \\
\mathrm{R}(x)=x^{2}-3 x-2
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=x+4
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=2 x^{3}-2 x \\
\mathrm{R}(x)=2 x+3
\end{array}\right] & .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+2 x^{2}-x+3 \\
\mathrm{R}(x)=-5
\end{array}\right] \\
\mathrm{Q}(x)=x^{3}+4 \\
\mathrm{R}(x)=-7
\end{array}\right] \quad .6=
\end{aligned}
$$

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$$
\begin{aligned}
& \text { Ansl }=[a=-2, b=-3, c=1] \\
& \text { Ans2 }=\left[\begin{array}{cc}
.1=\left[\mathrm{p}(x)+\mathrm{q}(x)=4 x^{2}+2 x+1\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-2 x^{2}-2 x+5\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=2 x^{2}+2 x-5\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-11 x^{2}-10 x+22\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=3 x^{4}+2 x^{3}+7 x^{2}+6 x-6\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}+6 x^{2}+9\right]
\end{array}\right] \\
& \text { Ans3 } 3=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{5}+2 x^{4}-17 x^{3}-8 x^{2}-6 x-4\right] \\
& \text { Ans4 }=[a+b=11, a b=18], \quad, A n s 5=[a=6, b=7, a b=42] \\
& \text { Ans6 }=\left[\mathrm{P}(x)=x^{4}-2 x^{3}-6 x^{2}+15 x+7\right] \\
& \text { Ans } \left.\left.\left.7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=4 x^{4}-4 x^{3}+4 \\
\mathrm{R}(x)=-3
\end{array}\right.
\end{array}\right] \quad \begin{array}{c}
.2=\left[\begin{array}{c}
\mathrm{Q}(x)=4 x^{2}-4 x \\
\mathrm{R}(x)=4 x-3
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=-3 x-2
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=2 x^{3}+6 x \\
\mathrm{R}(x)=18 x+3
\end{array}\right]
\end{array}\right] \begin{array}{c}
\mathrm{Q}(x)=x^{3}+8 x^{2}+20 x+59 \\
\mathrm{R}(x)=173
\end{array}\right]\right]\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+5 \\
\mathrm{R}(x)=20
\end{array}\right] \quad . \quad 4
\end{aligned}
$$



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$$
\begin{aligned}
& \text { Ansl }=[a=-3, b=-2, c=-3] \\
& \text { Ans } 2=\left[\begin{array}{cc}
. l=\left[\mathrm{p}(x)+\mathrm{q}(x)=4 x^{2}+x-10\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-2 x^{2}-x\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=2 x^{2}+x\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-13 x^{2}-5 x+15\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=3 x^{4}+x^{3}-20 x^{2}-5 x+25\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}-10 x^{2}+25\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{6}+5 x^{5}-8 x^{4}-25 x^{3}+12 x^{2}-15 x+9\right] \\
& \text { Ans } 4=[a+b=11, a b=28], \quad, A n s 5=[a=-5, b=3, a b=-15] \\
& \text { Ans6 }=\left[\mathrm{P}(x)=x^{4}-3 x^{3}+4 x^{2}-10 x-7\right] \\
& A n s 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=5 x^{3}+2 x^{2}-2 x-2 \\
\mathrm{R}(x)=-3 x+4
\end{array}\right] & .2=\left[\begin{array}{c}
\mathrm{Q}(x)=5 x^{2}+2 x-2 \\
\mathrm{R}(x)=-2 x^{2}-3 x+4
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=x+4
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=4 x^{3}+12 x \\
\mathrm{R}(x)=36 x-3
\end{array}\right] & 4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+x^{2}-3 x+7 \\
\mathrm{R}(x)=-17
\end{array}\right] \\
.6=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+2 \\
\mathrm{R}(x)=-8
\end{array}\right]
\end{array}\right]
\end{aligned}
$$

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X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM4/1-6600103-00014XX Real01 Answers for No. 10071

$$
\text { Ansl }=[a=-3, b=-1, c=2]
$$

$$
\begin{aligned}
& \text { Ans } 2=\left[\begin{array}{cc}
.1=\left[\mathrm{p}(x)+\mathrm{q}(x)=4 x^{2}+5 x+1\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-2 x^{2}-5 x+7\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=2 x^{2}+5 x-7\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-12 x^{2}-25 x+27\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=3 x^{4}+5 x^{3}+9 x^{2}+20 x-12\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}+8 x^{2}+16\right]
\end{array}\right] \\
& \text { Ans } 3=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{6}+x^{5}-11 x^{4}-15 x^{3}+5 x^{2}-10 x-25\right] \\
& \text { Ans } 4=[a+b=-7, a b=10], \quad \text { Ans } 5=[a=-1, b=3, a b=-3] \\
& \text { Ans6 }=\left[\mathrm{P}(x)=x^{4}-4 x^{3}-2 x^{2}+12 x+1\right] \\
& A n s 7=\left[\begin{array}{cc}
. l=\left[\begin{array}{c}
\mathrm{Q}(x)=2 x^{4}-3 x^{3}-2 x^{2}-4 x \\
\mathrm{R}(x)=-3
\end{array}\right] & .2=\left[\begin{array}{c}
\mathrm{Q}(x)=2 x^{2}-3 x-2 \\
\mathrm{R}(x)=-4 x^{2}-3
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=-5 x+6
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=4 x^{3}-4 x \\
\mathrm{R}(x)=4 x+3
\end{array}\right] & .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+4 x^{2}+14 x+42 \\
\mathrm{R}(x)=127
\end{array}\right] \\
.6=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+6 \\
\mathrm{R}(x)=9
\end{array}\right]
\end{array}\right]
\end{aligned}
$$

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X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM4/1-6600103-00015XX Real01 Answers for No. 10088

$$
\text { Ans } 1=[a=-1, b=0, c=-1]
$$

$$
\begin{aligned}
& \text { Ans } 2=\left[\begin{array}{cc}
.1=\left[\mathrm{p}(x)+\mathrm{q}(x)=4 x^{2}-4 x+1\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-2 x^{2}+4 x-3\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=2 x^{2}-4 x+3\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-12 x^{2}+20 x-13\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=3 x^{4}-4 x^{3}-x^{2}+4 x-2\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}-2 x^{2}+1\right]
\end{array}\right] \\
& \text { Ans } 3=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{6}-3 x^{5}-x^{4}+9 x^{3}-11 x^{2}+15 x-10\right] \\
& \text { Ans4 }=[a+b=1, a b=-72], \quad \text { Ans } 5=[a=-2, b=4, a b=-8] \\
& \text { Ans6 }=\left[\mathrm{P}(x)=x^{4}+3 x^{3}-2 x^{2}-2 x-5\right] \\
& \left.A n s 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=5 x^{4}-x^{3}+2 x \\
\mathrm{R}(x)=0
\end{array}\right.
\end{array}\right] \quad .2=\left[\begin{array}{c}
\mathrm{Q}(x)=5 x^{2}-x \\
\mathrm{R}(x)=2 x^{2}
\end{array}\right] .\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=6 x+4
\end{array}\right] \quad .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}-2 x^{2}+6 x-16 \\
\mathrm{R}(x)=47
\end{array}\right]\right]
\end{aligned}
$$

X [Page = 0015] XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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$$
\begin{aligned}
& \text { Ansl }=[a=4, b=2, c=0]
\end{aligned}
$$

x [Page = 0016] XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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$$
\begin{aligned}
& \text { Ansl }=[a=-3, b=-4, c=-5] \\
& A n s 2=\left[\begin{array}{cc}
. l=\left[\mathrm{p}(x)+\mathrm{q}(x)=4 x^{2}-4 x\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-2 x^{2}+4 x+10\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=2 x^{2}-4 x-10\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-3 x^{2}+8 x+25\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=3 x^{4}-4 x^{3}+10 x^{2}-20 x-25\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}+10 x^{2}+25\right]
\end{array}\right] \\
& \text { Ans } 3=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{5}-5 x^{4}+2 x^{3}+13 x^{2}-5 x-10\right] \\
& \text { Ans } 4=[a+b=7, a b=-8], \quad, A n s 5=[a=-1, b=5, a b=-5] \\
& \text { Ans6 }=\left[\mathrm{P}(x)=x^{4}+4 x^{3}-5 x^{2}-17 x+4\right] \\
& A n s 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{4}-3 x^{3}-3 x^{2}-2 x \\
\mathrm{R}(x)=4
\end{array}\right] & .2=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{2}-3 x-3 \\
\mathrm{R}(x)=-2 x^{2}+4
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=-6 x+2
\end{array}\right] & .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+3 x^{2}+2 x+5 \\
\mathrm{R}(x)=7
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=2 x^{3}-2 x \\
\mathrm{R}(x)=2 x+5
\end{array}\right] & .6=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3} \\
\mathrm{R}(x)=-5
\end{array}\right]
\end{array}\right]
\end{aligned}
$$

x [Page = 0017] XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM4/1-6600103-00018XX Real01 Answers for No. 10914

$$
\text { Ans } 1=[a=0, b=-2, c=-1]
$$

$$
\begin{aligned}
& A n s 2=\left[\begin{array}{cc}
.1=\left[\mathrm{p}(x)+\mathrm{q}(x)=3 x^{2}+x-6\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-x^{2}-x+4\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=x^{2}+x-4\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-x^{2}-2 x+7\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=2 x^{4}+x^{3}-7 x^{2}-x+5\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}-2 x^{2}+1\right]
\end{array}\right] \\
& \text { Ans } 3=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{6}-12 x^{5}+42 x^{4}-36 x^{3}-4 x^{2}+24 x-24\right] \\
& \text { Ans } 4=[a+b=-2, a b=-24], \quad \text { Ans } 5=[a=-2, b=3, a b=-6] \\
& \text { Ans6 }=\left[\mathrm{P}(x)=x^{4}+7 x^{3}-3 x^{2}-16 x+3\right] \\
& A n s 7=\left[\begin{array}{cc}
. l=\left[\begin{array}{c}
\mathrm{Q}(x)=5 x^{3}-x^{2}-3 x+1 \\
\mathrm{R}(x)=x-4
\end{array}\right.
\end{array}\right] \quad .2=\left[\begin{array}{c}
\mathrm{Q}(x)=5 x^{2}-x-3 \\
\mathrm{R}(x)=x^{2}+x-4
\end{array}\right] .\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+5 x^{2}+15 x+49 \\
\mathrm{R}(x)=-3 x-3
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=4 x^{3}-8 x \\
\mathrm{R}(x)=16 x-5
\end{array}\right]
\end{array}\right]
\end{aligned}
$$

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X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM4/1-6600103-00019XX Real01 Answers for No. 10945

$$
\begin{aligned}
& \text { Ansl }=[a=-2, b=1, c=-2]
\end{aligned}
$$

x [Page $=0019]$ Xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM4/1-6600103-00020XX Real01 Answers for No. 10954

$$
\begin{aligned}
& \text { Ansl }=[a=4, b=-1, c=-2] \\
& \text { Ans } 2=\left[\begin{array}{cc}
.1=\left[\mathrm{p}(x)+\mathrm{q}(x)=4 x^{2}+5 x+4\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-2 x^{2}-5 x+6\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=2 x^{2}+5 x-6\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-4 x^{2}-15 x+28\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=3 x^{4}+5 x^{3}+14 x^{2}+25 x-5\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}+10 x^{2}+25\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{6}-3 x^{5}-6 x^{4}+6 x^{3}-15 x^{2}-45 x-18\right] \\
& \text { Ans } 4=[a+b=3, a b=-40], \quad \text { Ans } 5=[a=2, b=5, a b=10] \\
& \text { Ans6 }=\left[\mathrm{P}(x)=x^{4}-3 x^{3}-2 x^{2}+8 x+7\right] \\
& \text { Ans } 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{4}+3 x^{3}+x^{2}-2 x+4 \\
\mathrm{R}(x)=0
\end{array}\right] & .2=\left[\begin{array}{c}
\mathrm{Q}(x)=x+3 \\
\mathrm{R}(x)=x^{3}-2 x^{2}+4 x
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=-5 x+5
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=2 x^{3}-2 x \\
\mathrm{R}(x)=2 x+3
\end{array}\right] & .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+2 x^{2}-6 x+17 \\
\mathrm{R}(x)=-56
\end{array}\right] \\
\mathrm{Q}(x)=x^{3}+5 \\
\mathrm{R}(x)=18
\end{array}\right] \quad .6=
\end{aligned}
$$



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$$
\begin{aligned}
& A n s 1=[a=-3, b=2, c=0] \\
& \text { Ans2 }=\left[\begin{array}{cc}
.1=\left[\mathrm{p}(x)+\mathrm{q}(x)=4 x^{2}-4 x+6\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-2 x^{2}+4 x-2\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=2 x^{2}-4 x+2\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-13 x^{2}+20 x-16\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=3 x^{4}-4 x^{3}+10 x^{2}-8 x+8\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}+4 x^{2}+4\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{6}-2 x^{5}+x^{4}-12 x^{3}-34 x^{2}+8 x+20\right] \\
& \text { Ans } 4=[a+b=-7, a b=10], \quad, A n s 5=[a=2, b=5, a b=10] \\
& \text { Ans6 }=\left[\mathrm{P}(x)=x^{4}+7 x^{3}-6 x^{2}-38 x-7\right] \\
& \text { Ans } 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=5 x^{3}+2 x^{2}+4 x+4 \\
\mathrm{R}(x)=-2 x+2
\end{array}\right. & .2=\left[\begin{array}{c}
\mathrm{Q}(x)=5 x+2 \\
\mathrm{R}(x)=4 x^{3}+4 x^{2}-2 x+2
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=-5 x+5
\end{array}\right] & .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+x^{2}-x+4 \\
\mathrm{R}(x)=-11
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=4 x^{3}-12 x \\
\mathrm{R}(x)=36 x-5
\end{array}\right] & .6=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+4 \\
\mathrm{R}(x)=-8
\end{array}\right]
\end{array}\right]
\end{aligned}
$$

[^1]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM4/1-6600103-00022XX Real01 Answers for No. 11154

$$
\text { Ans1 }=[a=4, b=1, c=1]
$$

$$
\begin{aligned}
& \text { Ans } 2=\left[\begin{array}{cc}
.1=\left[\mathrm{p}(x)+\mathrm{q}(x)=5 x^{2}-3 x\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-3 x^{2}+3 x+4\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=3 x^{2}-3 x-4\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-3 x^{2}+6 x+14\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=4 x^{4}-3 x^{3}+6 x^{2}-6 x-4\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}+4 x^{2}+4\right]
\end{array}\right] \\
& \text { Ans } 3=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{6}+4 x^{5}+5 x^{4}+2 x^{3}+5 x^{2}-2 x-15\right] \\
& \text { Ans } 4=[a+b=-14, a b=45], \quad \text {, Ans } 5=[a=5, b=4, a b=20] \\
& \text { Ans } 6=\left[\mathrm{P}(x)=x^{4}-3 x^{3}-2 x^{2}+11 x-1\right] \\
& \text { Ans } 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{4}+2 x^{3}+2 x^{2}-1 \\
\mathrm{R}(x)=0
\end{array}\right] & .2=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{2}+2 x+2 \\
\mathrm{R}(x)=-x
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=3 x+7
\end{array}\right] & .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+5 x^{2}+16 x+46 \\
\mathrm{R}(x)=137
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{3}+9 x \\
\mathrm{R}(x)=27 x+2
\end{array}\right] & .6=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+7 \\
\mathrm{R}(x)=16
\end{array}\right]
\end{array}\right]
\end{aligned}
$$

x [Page $=0022]$ xxXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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$$
\begin{aligned}
& \text { Ans } 1=[a=0, b=-2, c=1] \\
& \text { Ans } 2=\left[\begin{array}{cc}
.1=\left[\mathrm{p}(x)+\mathrm{q}(x)=4 x^{2}+2 x+10\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-2 x^{2}-2 x\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=2 x^{2}+2 x\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-x^{2}-4 x+15\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=3 x^{4}+2 x^{3}+20 x^{2}+10 x+25\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}+10 x^{2}+25\right]
\end{array}\right] \\
& A n s 3=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{6}+3 x^{5}-4 x^{4}-6 x^{3}-21 x^{2}+15 x+12\right] \\
& \text { Ans4 }=[a+b=-1, a b=-12], \quad, A n s 5=[a=-3, b=5, a b=-15] \\
& \text { Ans } 6=\left[\mathrm{P}(x)=x^{4}+2 x^{3}-x^{2}+4 x+5\right] \\
& A n s 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{3}-2 x^{2}-4 x+2 \\
\mathrm{R}(x)=4 x+3
\end{array}\right] & .2=\left[\begin{array}{l}
\mathrm{Q}(x)=3 x^{2}-2 x-4 \\
\mathrm{R}(x)=2 x^{2}+4 x+3
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=7 x+1
\end{array}\right] & .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+7 x^{2}+17 x+32 \\
\mathrm{R}(x)=63
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{3}+3 x \\
\mathrm{R}(x)=3 x-2
\end{array}\right] & .6=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+4 \\
\mathrm{R}(x)=13
\end{array}\right]
\end{array}\right]
\end{aligned}
$$

x [Page = 0023] XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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$$
\begin{aligned}
& \text { Ansl }=[a=0, b=0, c=0] \\
& \text { Ans } 2=\left[\begin{array}{cc}
.1=\left[\mathrm{p}(x)+\mathrm{q}(x)=3 x^{2}-4 x+4\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-x^{2}+4 x-2\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=x^{2}-4 x+2\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-5 x^{2}+16 x-9\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=2 x^{4}-4 x^{3}+5 x^{2}-4 x+3\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}+2 x^{2}+1\right]
\end{array}\right] \\
& A n s 3=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{5}+6 x^{4}+4 x^{3}-11 x^{2}+12 x-20\right] \\
& \text { Ans4 }=[a+b=-10, a b=9], \quad \text { Ans } 5=[a=-1, b=4, a b=-4] \\
& \text { Ans6 }=\left[\mathrm{P}(x)=x^{4}+6 x^{3}+3 x^{2}+23 x-2\right] \\
& A n s 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{l}
\mathrm{Q}(x)=2 x^{4}+3 x^{3}+3 x^{2}-3 x+1 \\
\mathrm{R}(x)=-3
\end{array}\right] & .2=\left[\begin{array}{l}
\mathrm{Q}(x)=2 x^{2}+3 x+3 \\
\mathrm{R}(x)=-3 x^{2}+x-3
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=6 x+4
\end{array}\right] & .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+3 x-9 \\
\mathrm{R}(x)=14
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{3}-9 x \\
\mathrm{R}(x)=27 x-5
\end{array}\right] & .6=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+1 \\
\mathrm{R}(x)=-4
\end{array}\right]
\end{array}\right]
\end{aligned}
$$

X [Page = 0024] XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM4/1-6600103-00025XX Real01 Answers for No. 12037

$$
\begin{aligned}
& \text { Ansl }=[a=0, b=-1, c=-3] \\
& \text { Ans } 2=\left[\begin{array}{cc}
.1=\left[\mathrm{p}(x)+\mathrm{q}(x)=3 x^{2}-4 x-2\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-x^{2}+4 x\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=x^{2}-4 x\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-2 x^{2}+12 x-1\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=2 x^{4}-4 x^{3}-3 x^{2}+4 x+1\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}-2 x^{2}+1\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{5}+6 x^{4}+4 x^{3}+30 x^{2}-48 x+12\right] \\
& \text { Ans } 4=[a+b=3, a b=-18], \quad \text { Ans } 5=[a=-7, b=1, a b=-7] \\
& \text { Ans6 }=\left[\mathrm{P}(x)=x^{4}-6 x^{3}-3 x^{2}+21 x+7\right] \\
& A n s 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{4}-2 x^{2}+2 \\
\mathrm{R}(x)=0
\end{array}\right] & .2=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=-2 x^{3}+2 x
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=4 x+4
\end{array}\right] & .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+4 \\
\mathrm{R}(x)=-11
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=4 x^{3}-12 x \\
\mathrm{R}(x)=36 x+3
\end{array}\right] & .6=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+1 \\
\mathrm{R}(x)=0
\end{array}\right]
\end{array}\right]
\end{aligned}
$$

[^2]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM4/1-6600103-00026XX Real01 Answers for No. 12454

$$
\text { Ans } 1=[a=2, b=1, c=-2]
$$

$$
\begin{aligned}
& \text { Ans } 2=\left[\begin{array}{cc}
. l=\left[\mathrm{p}(x)+\mathrm{q}(x)=4 x^{2}-4 x+1\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-2 x^{2}+4 x-3\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=2 x^{2}-4 x+3\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-11 x^{2}+20 x-14\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=3 x^{4}-4 x^{3}-x^{2}+4 x-2\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}-2 x^{2}+1\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{6}+4 x^{5}-7 x^{4}-16 x^{3}+10 x^{2}-8 x+6\right] \\
& \text { Ans } 4=[a+b=-7, a b=6], \quad, A n s 5=[a=-7, b=3, a b=-21] \\
& \text { Anst }=\left[\mathrm{P}(x)=x^{4}+2 x^{3}-4 x^{2}-5 x-7\right] \\
& A n s 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{4}-x^{3}-4 x^{2}-3 x-1 \\
\mathrm{R}(x)=-3
\end{array}\right] & .2=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{2}-x-4 \\
\mathrm{R}(x)=-3 x^{2}-x-3
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=2 x-5
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{3}+3 x \\
\mathrm{R}(x)=3 x-5
\end{array}\right] & .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+4 x^{2}+6 x+15 \\
\mathrm{R}(x)=27
\end{array}\right] \\
.6=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+2 \\
\mathrm{R}(x)=-9
\end{array}\right]
\end{array}\right]
\end{aligned}
$$

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X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM4/1-6600103-00027XX Real01 Answers for No. 12483

$$
\text { Ans } 1=[a=-4, b=-4, c=-4]
$$

$$
\begin{aligned}
& \text { Ans } 2=\left[\begin{array}{cc}
.1=\left[\mathrm{p}(x)+\mathrm{q}(x)=4 x^{2}+4 x+1\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-2 x^{2}-4 x+9\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=2 x^{2}+4 x-9\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-4 x^{2}-12 x+37\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=3 x^{4}+4 x^{3}+11 x^{2}+20 x-20\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}+10 x^{2}+25\right]
\end{array}\right] \\
& \text { Ans } 3=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{6}+5 x^{5}-3 x^{4}-30 x^{3}-22 x^{2}-20 x-12\right] \\
& \text { Ans4 }=[a+b=7, a b=10], \quad \text {, Ans } 5=[a=-4, b=1, a b=-4] \\
& \text { Ans } 6=\left[\mathrm{P}(x)=x^{4}+7 x^{3}-3 x^{2}-17 x+1\right] \\
& \text { Ans } 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{4}-4 x^{3}-3 x+4 \\
\mathrm{R}(x)=4
\end{array}\right] & .2=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x-4 \\
\mathrm{R}(x)=-3 x^{2}+4 x+4
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=x-6
\end{array}\right] & .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+2 x^{2}-6 x+14 \\
\mathrm{R}(x)=-43
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{3}+9 x \\
\mathrm{R}(x)=27 x+2
\end{array}\right] & .6=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3} \\
\mathrm{R}(x)=5
\end{array}\right]
\end{array}\right]
\end{aligned}
$$

X [Page $=0027]$ XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM4/1-6600103-00028XX Real01 Answers for No. 12557

$$
\begin{aligned}
& \text { Ansl }=[a=2, b=-5, c=2]
\end{aligned}
$$



X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM4/1-6600103-00029XX Real01 Answers for No. 12637

$$
\begin{aligned}
& \text { Ansl }=[a=3, b=4, c=-3]
\end{aligned}
$$

X [Page = 0029] XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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$$
\begin{aligned}
& \text { Ans } 1=[a=1, b=-2, c=-4] \\
& \text { Ans2 }=\left[\begin{array}{cc}
.1=\left[\mathrm{p}(x)+\mathrm{q}(x)=5 x^{2}+5 x+6\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-3 x^{2}-5 x-2\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=3 x^{2}+5 x+2\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-7 x^{2}-15 x-2\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=4 x^{4}+5 x^{3}+12 x^{2}+10 x+8\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}+4 x^{2}+4\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{6}-2 x^{5}+2 x^{4}-3 x^{3}+x^{2}+4 x-10\right] \\
& \text { Ans } 4=[a+b=12, a b=27], \quad \text { Ans } 5=[a=-5, b=1, a b=-5] \\
& \text { Anst }=\left[\mathrm{P}(x)=x^{4}-3 x^{3}+4 x^{2}-9 x-7\right] \\
& A n s 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{4}-x^{3}+3 x^{2}+3 x+4 \\
\mathrm{R}(x)=0
\end{array}\right. & .2=\left[\begin{array}{l}
\mathrm{Q}(x)=x^{2}-x+3 \\
\mathrm{R}(x)=3 x^{2}+4 x
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=-6 x-6
\end{array}\right] & .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+8 x^{2}+22 x+70 \\
\mathrm{R}(x)=212
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{3}+3 x \\
\mathrm{R}(x)=3 x+4
\end{array}\right] & .6=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+2 \\
\mathrm{R}(x)=1
\end{array}\right]
\end{array}\right]
\end{aligned}
$$

x [Page = 0030] XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM4/1-6600103-00031XX Real01 Answers for No. 13349

$$
\text { Ans } 1=[a=-4, b=2, c=3]
$$

$$
\begin{aligned}
& A n s 2=\left[\begin{array}{cc}
.1=\left[\mathrm{p}(x)+\mathrm{q}(x)=5 x^{2}-4 x-7\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-3 x^{2}+4 x+3\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=3 x^{2}-4 x-3\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-11 x^{2}+16 x+10\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=4 x^{4}-4 x^{3}-13 x^{2}+8 x+10\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}-4 x^{2}+4\right]
\end{array}\right] \\
& \text { Ans } 3=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{6}+3 x^{5}-3 x^{4}-2 x^{3}-x^{2}+21 x-15\right] \\
& \text { Ans } 4=[a+b=12, a b=35], \quad \text { Ans } 5=[a=2, b=4, a b=8] \\
& \text { Ans6 }=\left[\mathrm{P}(x)=x^{4}-7 x^{3}+4 x^{2}-23 x-1\right]
\end{aligned}
$$

[^3]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM4/1-6600103-00032XX Real01 Answers for No. 13519

$$
\begin{aligned}
& \text { Ans } 1=[a=-1, b=-3, c=4] \\
& \text { Ans } 2=\left[\begin{array}{cc}
.1=\left[\mathrm{p}(x)+\mathrm{q}(x)=4 x^{2}+4 x+3\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-2 x^{2}-4 x+7\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=2 x^{2}+4 x-7\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-x^{2}-8 x+29\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=3 x^{4}+4 x^{3}+13 x^{2}+20 x-10\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}+10 x^{2}+25\right]
\end{array}\right] \\
& A n s 3=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{5}-9 x^{4}+26 x^{3}-27 x^{2}+15 x-18\right] \\
& \text { Ans } 4=[a+b=-3, a b=-10], \quad, A n s 5=[a=2, b=1, a b=2] \\
& \text { Ans } 6=\left[\mathrm{P}(x)=x^{4}+2 x^{3}-7 x^{2}-8 x+7\right] \\
& A n s 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=2 x^{4}+2 x^{3}-x^{2}+3 x \\
\mathrm{R}(x)=1
\end{array}\right. & .2=\left[\begin{array}{c}
\mathrm{Q}(x)=2 x^{2}+2 x-1 \\
\mathrm{R}(x)=3 x^{2}+1
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=6 x+6
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{3}-3 x \\
\mathrm{R}(x)=3 x+2
\end{array}\right] & .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}-2 x^{2}+10 x-30 \\
\mathrm{R}(x)=91
\end{array}\right] \\
.6=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+1 \\
\mathrm{R}(x)=-7
\end{array}\right]
\end{array}\right]
\end{aligned}
$$



X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM4/1-6600103-00033XX Real01 Answers for No. 14276

$$
\begin{aligned}
& \text { Ansl }=[a=-4, b=4, c=-2] \\
& \text { Ans } 2=\left[\begin{array}{cc}
.1=\left[\mathrm{p}(x)+\mathrm{q}(x)=4 x^{2}+x-3\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-2 x^{2}-x+5\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=2 x^{2}+x-5\right] & .4=\left[\operatorname{mp}(x)-\mathrm{nq}(x)=-9 x^{2}-4 x+19\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=3 x^{4}+x^{3}-x^{2}+x-4\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}+2 x^{2}+1\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{5}-5 x^{4}+7 x^{3}-13 x^{2}+2 x+8\right] \\
& \text { Ans } 4=[a+b=-16, a b=63], \quad \text { Ans } 5=[a=-4, b=1, a b=-4] \\
& \text { Ans6 }=\left[\mathrm{P}(x)=x^{4}+4 x^{3}-3 x^{2}-7 x-3\right] \\
& A n s 7=\left[\begin{array}{cc}
. l=\left[\begin{array}{c}
\mathrm{Q}(x)=5 x^{3}+3 x^{2}+x-3 \\
\mathrm{R}(x)=0
\end{array}\right. & .2=\left[\begin{array}{c}
\mathrm{Q}(x)=5 x^{2}+3 x+1 \\
\mathrm{R}(x)=-3 x^{2}
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=4 x-5
\end{array}\right] & .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+3 x^{2}+7 x+14 \\
\mathrm{R}(x)=31
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=4 x^{3}+12 x \\
\mathrm{R}(x)=36 x+5
\end{array}\right] & .6=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3} \\
\mathrm{R}(x)=3
\end{array}\right]
\end{array}\right]
\end{aligned}
$$

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X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM4/1-6600103-00034XX Real01 Answers for No. 14331

$$
\begin{aligned}
& \text { Ansl }=[a=3, b=4, c=3] \\
& \text { Ans } 2=\left[\begin{array}{cc}
. l=\left[\mathrm{p}(x)+\mathrm{q}(x)=4 x^{2}-4 x-3\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-2 x^{2}+4 x-5\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=2 x^{2}-4 x+5\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-3 x^{2}+8 x-14\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=3 x^{4}-4 x^{3}-11 x^{2}+16 x-4\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}-8 x^{2}+16\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{6}-2 x^{5}-27 x^{4}+18 x^{3}+4 x^{2}+16 x-12\right] \\
& \text { Ans } 4=[a+b=-7, a b=12], \quad \text { Ans } 5=[a=2, b=3, a b=6] \\
& \text { Ans6 }=\left[\mathrm{P}(x)=x^{4}-2 x^{3}-5 x^{2}+16 x+7\right] \\
& \left.\left.A n s 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{4}-x^{3}+4 x \\
\mathrm{R}(x)=2
\end{array}\right.
\end{array}\right] \quad \begin{array}{c}
.2=\left[\begin{array}{l}
\mathrm{Q}(x)=3 x^{2}-x \\
\mathrm{R}(x)=4 x^{2}+2
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=-5 x-7
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=2 x^{3}-4 x \\
\mathrm{R}(x)=8 x+5
\end{array}\right]
\end{array}\right] .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+4 x^{2}+10 x+32 \\
\mathrm{R}(x)=98
\end{array}\right]\right] .\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+7 \\
\mathrm{R}(x)=17
\end{array}\right] \quad . \quad .
\end{aligned}
$$

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X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM4/1-6600103-00035XX Real01 Answers for No. 14360

$$
\text { Ans } 1=[a=-1, b=-2, c=3]
$$

$$
\begin{aligned}
& \text { Ans } 2=\left[\begin{array}{cc}
.1=\left[\mathrm{p}(x)+\mathrm{q}(x)=3 x^{2}-x-7\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-x^{2}+x+3\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=x^{2}-x-3\right] & .4=\left[\operatorname{mp}(x)-\mathrm{nq}(x)=-7 x^{2}+5 x+19\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=2 x^{4}-x^{3}-9 x^{2}+2 x+10\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}-4 x^{2}+4\right]
\end{array}\right] \\
& \text { Ans } 3=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{5}+4 x^{4}+9 x^{3}+20 x^{2}+2 x-12\right] \\
& \text { Ans } 4=[a+b=-5, a b=-24], \quad, A n s 5=[a=-6, b=1, a b=-6] \\
& A n s 6=\left[\mathrm{P}(x)=x^{4}-x^{3}+5 x^{2}-2 x+7\right] \\
& A n s 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=5 x^{4}-x^{3}-2 x^{2}+2 x+2 \\
\mathrm{R}(x)=-3
\end{array}\right] & .2=\left[\begin{array}{c}
\mathrm{Q}(x)=5 x^{2}-x-2 \\
\mathrm{R}(x)=2 x^{2}+2 x-3
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=-5 x+6
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=2 x^{3}+2 x \\
\mathrm{R}(x)=2 x-3
\end{array}\right] & 4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+6 x^{2}+18 x+55 \\
\mathrm{R}(x)=167
\end{array}\right] \\
.6=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+3 \\
\mathrm{R}(x)=-8
\end{array}\right]
\end{array}\right]
\end{aligned}
$$



X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM4/1-6600103-00036XX Real01 Answers for No. 14380

$$
\begin{aligned}
& \text { Ansl }=[a=-4, b=-3, c=0] \\
& \text { Ans } 2=\left[\begin{array}{cc}
.1=\left[\mathrm{p}(x)+\mathrm{q}(x)=3 x^{2}+4 x+7\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-x^{2}-4 x+1\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=x^{2}+4 x-1\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-7 x^{2}-20 x-3\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=2 x^{4}+4 x^{3}+11 x^{2}+16 x+12\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}+8 x^{2}+16\right]
\end{array}\right] \\
& A n s 3=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{6}-7 x^{5}+7 x^{4}+15 x^{3}+5 x^{2}-20 x-25\right] \\
& \text { Ans4 }=[a+b=-2, a b=-24], \quad, A n s 5=[a=-6, b=3, a b=-18] \\
& \text { Ans6 }=\left[\mathrm{P}(x)=x^{4}-4 x^{3}-5 x^{2}+24 x+7\right] \\
& A n s 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{3}+4 x^{2}+4 x \\
\mathrm{R}(x)=-4 x-2
\end{array}\right] & .2=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{2}+4 x+4 \\
\mathrm{R}(x)=-4 x-2
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=6 x-4
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{3}-3 x \\
\mathrm{R}(x)=3 x+5
\end{array}\right] & 4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+8 x^{2}+27 x+84 \\
\mathrm{R}(x)=253
\end{array}\right] \\
.6=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+6 \\
\mathrm{R}(x)=4
\end{array}\right]
\end{array}\right]
\end{aligned}
$$

x [Page = 0036] xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM4/1-6600103-00037XX Real01 Answers for No. 14393

$$
\begin{aligned}
& \text { Ansl }=[a=2, b=2, c=-1] \\
& \text { Ans } 2=\left[\begin{array}{cc}
. l=\left[\mathrm{p}(x)+\mathrm{q}(x)=4 x^{2}+3 x+4\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-2 x^{2}-3 x+2\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=2 x^{2}+3 x-2\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-7 x^{2}-9 x+3\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=3 x^{4}+3 x^{3}+10 x^{2}+9 x+3\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}+6 x^{2}+9\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{6}-6 x^{5}+3 x^{4}-4 x^{3}+28 x^{2}-36 x+12\right] \\
& \text { Ans } 4=[a+b=15, a b=54], \quad \text { Ans } 5=[a=2, b=4, a b=8] \\
& \text { Ans6 }=\left[\mathrm{P}(x)=x^{4}+2 x^{3}-6 x^{2}-6 x-5\right] \\
& A n s 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{3}+2 x^{2}-2 x+4 \\
\mathrm{R}(x)=-4 x-2
\end{array}\right. & .2=\left[\begin{array}{l}
\mathrm{Q}(x)=3 x^{2}+2 x-2 \\
\mathrm{R}(x)=4 x^{2}-4 x-2
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=x+2
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=2 x^{3}+6 x \\
\mathrm{R}(x)=18 x+3
\end{array}\right] & .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+2 x^{2}-9 x+26 \\
\mathrm{R}(x)=-74
\end{array}\right] \\
.6=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+7 \\
\mathrm{R}(x)=18
\end{array}\right]
\end{array}\right]
\end{aligned}
$$

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X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM4/1-6600103-00038XX Real01 Answers for No. 14418

$$
\text { Ans } 1=[a=4, b=4, c=0]
$$

$$
\begin{aligned}
& A n s 2=\left[\begin{array}{cc}
. l=\left[\mathrm{p}(x)+\mathrm{q}(x)=4 x^{2}-4 x\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-2 x^{2}+4 x-2\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=2 x^{2}-4 x+2\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-13 x^{2}+20 x-7\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=3 x^{4}-4 x^{3}-2 x^{2}+4 x-1\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}-2 x^{2}+1\right]
\end{array}\right] \\
& \text { Ans3 }=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{5}+2 x^{4}+5 x^{3}+2 x^{2}+2 x-6\right] \\
& \text { Ans } 4=[a+b=14, a b=45], \quad \text { Ans } 5=[a=1, b=7, a b=7] \\
& \text { Ans6 }=\left[\mathrm{P}(x)=x^{4}+3 x^{3}-6 x^{2}-15 x+1\right] \\
& A n s 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{3}-4 x^{2}-3 x+1 \\
\mathrm{R}(x)=-3 x+4
\end{array}\right] & .2=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{2}-4 x-3 \\
\mathrm{R}(x)=x^{2}-3 x+4
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=-6 x+4
\end{array}\right] & .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+2 x^{2}+4 \\
\mathrm{R}(x)=-12
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=2 x^{3}+4 x \\
\mathrm{R}(x)=8 x-5
\end{array}\right] & .6=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+4 \\
\mathrm{R}(x)=-1
\end{array}\right]
\end{array}\right]
\end{aligned}
$$

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Real01 Answers for No. 14419

$$
\begin{aligned}
& \text { Ansl }=[a=-4, b=-4, c=0] \\
& A n s 2=\left[\begin{array}{cc}
. l=\left[\mathrm{p}(x)+\mathrm{q}(x)=4 x^{2}-3 x-6\right] & .2=\left[\mathrm{p}(x)-\mathrm{q}(x)=-2 x^{2}+3 x-4\right] \\
.3=\left[\mathrm{q}(x)-\mathrm{p}(x)=2 x^{2}-3 x+4\right] & .4=\left[\mathrm{mp}(x)-\mathrm{nq}(x)=-7 x^{2}+12 x-21\right] \\
.5=\left[\mathrm{p}(x) \mathrm{q}(x)=3 x^{4}-3 x^{3}-16 x^{2}+15 x+5\right] & .6=\left[[\mathrm{p}(x)]^{2}=x^{4}-10 x^{2}+25\right]
\end{array}\right] \\
& \text { Ans3 } 3=\left[\mathrm{p}(x) \mathrm{q}(x)=x^{6}-2 x^{5}-x^{4}+10 x^{3}-14 x^{2}-12 x+24\right] \\
& \text { Ans } 4=[a+b=5, a b=6], \quad, A n s 5=[a=2, b=4, a b=8] \\
& \text { Ans6 }=\left[\mathrm{P}(x)=x^{4}-7 x^{3}-5 x^{2}+41 x-1\right] \\
& A n s 7=\left[\begin{array}{cc}
.1=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{4}-x^{3}-3 x^{2}-2 x-1 \\
\mathrm{R}(x)=1
\end{array}\right] & .2=\left[\begin{array}{c}
\mathrm{Q}(x)=3 x^{2}-x-3 \\
\mathrm{R}(x)=-2 x^{2}-x+1
\end{array}\right] \\
.3=\left[\begin{array}{c}
\mathrm{Q}(x)=x \\
\mathrm{R}(x)=4 x+3
\end{array}\right] \\
.5=\left[\begin{array}{c}
\mathrm{Q}(x)=2 x^{3}+4 x \\
\mathrm{R}(x)=8 x+3
\end{array}\right] & .4=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+4 x^{2}+5 x+6 \\
\mathrm{R}(x)=13
\end{array}\right] \\
.6=\left[\begin{array}{c}
\mathrm{Q}(x)=x^{3}+6 \\
\mathrm{R}(x)=23
\end{array}\right]
\end{array}\right]
\end{aligned}
$$

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