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$$
\begin{aligned}
& \text { Ans } \left.1=\left[\begin{array}{c}
. l=\left(\mathrm{f}^{\prime}(x)=6 x+5\right) \\
.2=\left(\mathrm{f}(x)=9 x^{2}\right) \\
\left..3=\left(\begin{array}{l}
\mathrm{f} \\
\mathrm{f}
\end{array} \mathrm{x}\right)=-\frac{5}{x^{2}}\right) \\
4=\left(\mathrm{f}(x)=\frac{3}{\sqrt{x}}\right)
\end{array}\right], \quad \text {, Ans2=[} \begin{array}{c}
.1=(\mathrm{f}(5)=375) \\
.2=(\mathrm{f}(1)=-4)
\end{array}\right], \quad \text {, Ans } 4=\left[\begin{array}{l}
.1=\left[\begin{array}{l}
\mathrm{f}(4)=\frac{69}{16}
\end{array}\right] \\
.2=[\mathrm{f}(-2)=432]
\end{array}\right] \\
& A n s 3=\left[\begin{array}{cc}
.1=\left(\mathrm{f}^{\prime}(x)=6 x+5\right) & .2=\left(\mathrm{f}^{\prime}(x)=9 x^{2}\right) \\
.3=\left(\mathrm{f}^{\prime}(x)=7 x^{6}-10 x^{4}-12 x^{3}+12 x^{2}\right) & .4=\left(\mathrm{f}^{\prime}(x)=\frac{25}{3} x^{4}+\frac{5}{2} x^{2}-\frac{3}{2}\right) \\
.5=\left(\mathrm{f}^{\prime}(x)=-\frac{3}{\left.2 x^{(3 / 2)}+5-\frac{1}{\sqrt{x}}\right)}\right. & .6=\left(\mathrm{f}^{\prime}(x)=-\frac{1}{4 x^{(5 / 4)}}+\frac{1}{\left.4 x^{(3 / 4)}+\frac{4 x^{(1 / 3)}}{3}-\frac{3}{4 x^{(7 / 4)}}\right)}\right. \\
.7=\left(\mathrm{f}^{\prime}(x)=16 x^{3}+18 x^{2}+8 x-6\right) & .8=\left(\mathrm{f}^{\prime}(x)=\frac{3 x+2 \sqrt{x}+5}{2 \sqrt{x}}\right) \\
.9=\left(\mathrm{f}^{\prime}(x)=-\frac{21}{(1+4 x)^{2}}\right) \\
.11=\left(\mathrm{f}^{\prime}(x)=\frac{-12 x^{4}-40 x^{3}-12 x-25}{x^{6}}\right) & .12=\left(\mathrm{f}^{\prime}(x)=\frac{15 x^{6}+84 x^{5}+54 x^{4}-36 x^{3}-24 x^{2}}{(x+4)^{2}}\right)
\end{array}\right],
\end{aligned}
$$

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$$
\begin{aligned}
& \text { Ans } 3=\left[\begin{array}{cc}
. l=\left(\mathrm{f}^{\prime}(x)=10 x+2\right) & .2=\left(\mathrm{f}(x)=15 x^{2}\right) \\
.3=\left(\mathrm{f}^{\prime}(x)=6 x^{5}-8 x^{3}-15 x^{2}\right) \\
.5=\left(\mathrm{f}^{\prime}(x)=2-\frac{2}{\sqrt{x}}-\frac{3}{2 x^{(3 / 2)}}\right) \\
.7=\left(\mathrm{f}^{\prime}(x)=6 x^{2}+8 x-14\right) & .6=\left(\mathrm{f}(x)=\frac{5 x^{(2 / 3)}}{3}+\frac{1}{5 x^{(4 / 5)}}+\frac{3}{\left.5 x^{(2 / 5)}-\frac{1}{5 x^{(6 / 5)}}\right)}\right. \\
.9=\left(\mathrm{f}(x)=\frac{23}{(2 x+3)^{2}}\right) & .8=\left(\mathrm{f}^{\prime}(x)=\frac{3 x-3+2 \sqrt{x}}{2 \sqrt{x}}\right) \\
.11=\left(\mathrm{f}^{\prime}(x)=\frac{2 x^{5}-2 x^{3}-10 x^{2}-20}{x^{5}}\right) & .10=\left(\mathrm{f}^{\prime}(x)=-\frac{2 x+5}{2 x^{(3 / 2)}}\right) \\
.12=\left(\mathrm{f}^{2}(x)=\frac{-2 x^{3}-15 x^{2}+20}{(x+5)^{2}}\right)
\end{array}\right],
\end{aligned}
$$

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$$
\begin{aligned}
& \text { Ans } 1=\left[\begin{array}{c}
.1=\left(\mathrm{f}^{\prime}(x)=4 x+5\right) \\
.2=\left(\mathrm{f}^{\prime}(x)=9 x^{2}\right) \\
.3=\left(\mathrm{f}^{\prime}(x)=-\frac{4}{x^{2}}\right) \\
4=\left(\mathrm{f}(x)=\frac{4}{4}\right)
\end{array}\right], \quad, \text { Ans } 2=\left[\begin{array}{c}
.1=(\mathrm{f}(6)=432) \\
.2=(\mathrm{f}(1)=-10)
\end{array}\right], \quad \text {, Ans } 4=\left[\begin{array}{l}
.1=\left[\begin{array}{l}
\mathrm{f}(1)=\frac{-5}{2} \\
. \\
.2=[\mathrm{f}(2)=-6]
\end{array}\right]
\end{array}\right] \\
& .4=\left(\mathrm{f}^{\prime}(x)=\frac{4}{3 x^{(2 / 3)}}\right) \\
& .1=(\mathrm{f}(x)=4 x+5) \\
& .3=\left(f(x)=3 x^{2}-8 x-2\right) \\
& .5=\left(\mathrm{f}(x)=\frac{1}{\sqrt{x}}-\frac{1}{2 x^{(3 / 2)}}-3\right) \\
& A n s 3= \\
& .7=\left(f^{\prime}(x)=64 x^{3}+72 x^{2}+50 x+12\right) \\
& .9=\left(\mathrm{f}^{\prime}(x)=-\frac{23}{(x+4)^{2}}\right) \\
& .2=\left(\mathrm{f}(x)=9 x^{2}\right) \\
& .4=\left(\mathrm{f}^{\prime}(x)=\frac{5 x}{3}+\frac{1}{4}\right) \\
& \sigma=\left(\mathrm{f}^{\prime}(x)=\frac{1}{5 x^{(4 / 5)}}-\frac{5}{2 x^{(7 / 2)}}-\frac{2}{5 x^{(7 / 5)}}+\frac{2}{5 x^{(3 / 5)}}\right) \\
& .8=\left(\mathrm{f}^{\prime}(x)=-\frac{-3 x+8 \sqrt{x}+3}{2 \sqrt{x}}\right) \\
& .10=\left(\mathrm{f}^{\prime}(x)=\frac{20 x^{3}-1}{2 x^{(3 / 2)}}\right) \\
& .11=\left(f^{\prime}(x)=\frac{10 x^{7}-4 x^{4}-20 x^{3}-40}{x^{6}}\right) \\
& \left..12=\left(\mathrm{f}^{\prime}(x)=\frac{-20 x^{5}-100 x^{4}-100 x^{3}+3 x^{2}+6 x+15}{(x+1)^{2}}\right)\right]
\end{aligned}
$$

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$$
\begin{aligned}
& \text { AnsI } \left.=\left[\begin{array}{l}
.1=(\mathrm{f}(x)=8 x+1) \\
.2=\left(\mathrm{f}(x)=9 x^{2}\right) \\
.3=\left(\mathrm{f}(x)=-\frac{4}{x^{2}}\right) \\
. \\
.4=\left(\mathrm{f}(x)=\frac{2}{x^{(2 / 3)}}\right)
\end{array}\right], \quad \text { Ans } 2=\left[\begin{array}{c}
.1=(\mathrm{f}(5)=375) \\
.2=\left(\mathrm{f}(3)=\frac{-10}{27}\right)
\end{array}\right], \quad \text { Ans } 4=\left[\begin{array}{c}
.1=\left[\begin{array}{l}
\mathrm{f}(-2)=-829] \\
.2=[ \\
.
\end{array}\right] \\
\mathrm{f}(1)=\frac{19}{2}
\end{array}\right]\right]
\end{aligned}
$$

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$$
\begin{aligned}
& \text { Ans } 1=\left[\begin{array}{c}
.1=(\mathrm{f}(x)=6 x+5) \\
.2=\left(\mathrm{f}(x)=18 x^{2}\right) \\
.3=\left(\begin{array}{c} 
\\
\mathrm{f} \\
\\
\left.(x)=-\frac{3}{x^{2}}\right) \\
3
\end{array}\right), \quad, \text { Ans } 2=\left[\begin{array}{c}
.1=\left(\mathrm{f}^{\prime}(2)=24\right) \\
.2=(\mathrm{f}(-1)=10)
\end{array}\right], \quad \text { Ans } 4=\left[\begin{array}{c}
.1=\left[\mathrm{f}(4)=\frac{69}{16}\right.
\end{array}\right] \\
.2=[\mathrm{f}(-2)=-1144]
\end{array}\right] \\
& \operatorname{Ans} 3=\left[\begin{array}{c}
. l=\left(\mathrm{f}^{\prime}(x)=6 x+5\right) \\
.3=\left(\mathrm{f}^{\prime}(x)=30 x^{5}-10 x^{4}+4 x^{3}-4 x\right) \\
.5=\left(\mathrm{f}^{\prime}(x)=3+\frac{2}{\sqrt{x}}+\frac{5}{2 x^{(3 / 2)}}\right) \\
.7=\left(\mathrm{f}^{\prime}(x)=48 x^{3}+51 x^{2}-18 x-10\right) \\
.11=\left(\mathrm{f}^{\prime}(x)=-\frac{22}{(4 x-5)^{2}}\right) \\
\left..9=\frac{3 x^{5}-3 x^{3}-8 x^{2}-16}{x^{5}}\right)
\end{array}\right. \\
& \left.\begin{array}{c}
.2=\left(\mathrm{f}^{\prime}(x)=18 x^{2}\right) \\
.4=\left(\mathrm{f}^{\prime}(x)=\frac{25}{6} x^{4}-\frac{8}{5} x^{3}-\frac{2}{5} x\right) \\
\left.\mathrm{f}^{\prime}(x)=-\frac{5}{4 x^{(9 / 4)}}+\frac{1}{5 x^{(4 / 5)}}+\frac{4}{5 x^{(1 / 5)}}+\frac{5 x^{(1 / 4)}}{4}\right) \\
.8=\left(\mathrm{f}^{\prime}(x)=-\frac{-3 x+10 \sqrt{x}+4}{2 \sqrt{x}}\right) \\
.10=\left(\mathrm{f}^{\prime}(x)=\frac{27 x^{4}+1}{2 \sqrt{x}}\right) \\
.12=\left(\mathrm{f}^{\prime}(x)=\frac{10 x^{6}-42 x^{4}-36 x^{3}}{(x+1)^{2}}\right)
\end{array}\right] \\
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\end{array}\right]} \\
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\end{array}\right]}
\end{aligned}
$$

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$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{c}
. l=\left(\mathrm{f}^{\prime}(x)=2 x+2\right) \\
.2=\left(\mathrm{f}^{\prime}(x)=6 x^{2}\right) \\
.3=\left(\mathrm{f}^{\prime}(x)=-\frac{3}{x^{2}}\right) \\
.4=\left(\begin{array}{c} 
\\
\left.\mathrm{f}^{\prime}(x)=\frac{4}{3 x^{(2 / 3)}}\right)
\end{array}\right], \quad, \text { Ans2 }=\left[\begin{array}{c}
.1=\left(\mathrm{f}^{\prime}(4)=96\right) \\
.2=\left(\mathrm{f}^{\prime}(3)=\frac{-4}{9}\right)
\end{array}\right], \quad \text {, Ans } 4=\left[\begin{array}{c}
.1=\left[\begin{array}{l}
\mathrm{f} \\
\mathrm{f}
\end{array}(4)=\frac{7}{16}\right] \\
.2=[\mathrm{f}(-2)=-773]
\end{array}\right]
\end{array}\right.
\end{aligned}
$$

$$
\begin{aligned}
& {\left[\begin{array}{c}
{\left[\begin{array}{c}
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\end{array}\right]}
\end{aligned}
$$

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$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{c}
. l=(\mathrm{f}(x)=8 x+1) \\
.2=\left(\mathrm{f}(x)=9 x^{2}\right) \\
.3=\left(\mathrm{f}^{\prime}(x)=-\frac{6}{x^{2}}\right) \\
. \\
.4=\left(\mathrm{f}(x)=\frac{4}{3 x^{(2 / 3)}}\right)
\end{array}\right], \quad, \text { Ans } 2=\left[\begin{array}{c}
.1=(\mathrm{f}(5)=450) \\
.2=\left(\mathrm{f}^{\prime}(-3)=\frac{4}{27}\right)
\end{array}\right], \quad, \quad \text { Ans } 4=\left[\begin{array}{c}
.1=[\mathrm{f}(-2)=236] \\
.2=\left[\begin{array}{l}
\mathrm{f} \\
\mathrm{f}
\end{array}(4)=\frac{1}{8}\right]
\end{array}\right]
\end{aligned}
$$

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$$
\begin{aligned}
& \text { Ans } 1=\left[\begin{array}{c}
.1=\left(\mathrm{f}^{\prime}(x)=6 x+5\right) \\
.2=\left(\mathrm{f}^{\prime}(x)=6 x^{2}\right) \\
.3=\left(\mathrm{f}^{\prime}(x)=-\frac{3}{x^{2}}\right) \\
.4=\left(\mathrm{f}^{\prime}(x)=\frac{3}{\sqrt{x}}\right)
\end{array}\right], \quad, \quad \text { Ans } 2=\left[\begin{array}{c}
.1=\left(\mathrm{f}^{\prime}(3)=81\right) \\
.2=\left(\mathrm{f}^{\prime}(1)=-10\right)
\end{array}\right], \quad, \quad \text { Ans } 4=\left[\begin{array}{c}
.1=\left[\mathrm{f}^{\prime}(2)=1136\right] \\
.2=\left[\begin{array}{c}
15 \\
\mathrm{f}^{\prime}(4)=\frac{15}{4}
\end{array}\right]
\end{array}\right]
\end{aligned}
$$

$$
\begin{aligned}
& {\left[\begin{array}{c}
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\end{array}\right]} \\
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\end{array}\right]}
\end{aligned}
$$

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$$
\begin{aligned}
& A n s l=\left[\begin{array}{l}
.1=\left(\mathrm{f}^{\prime}(x)=6 x-4\right) \\
.2=\left(\mathrm{f}^{\prime}(x)=15 x^{2}\right) \\
.3=\left(\mathrm{f}^{\prime}(x)=-\frac{2}{x^{2}}\right) \\
.4=\left(\mathrm{f}^{\prime}(x)=\frac{3}{2 \sqrt{x}}\right)
\end{array}\right], \quad, \quad \text { Ans } 2=\left[\begin{array}{c}
.1=\left(\mathrm{f}^{\prime}(6)=540\right) \\
.2=\left(\mathrm{f}^{\prime}(3)=\frac{-10}{27}\right)
\end{array}\right], \quad, \quad \text { Ans } 4=\left[\begin{array}{c}
.1=\left[\begin{array}{l}
\left.\mathrm{f}^{\prime}(-2)=-220\right] \\
.2=\left[\mathrm{f}^{\prime}(1)=4\right]
\end{array}\right]
\end{array}\right. \\
& A n s 3=\left[\begin{array}{cc}
. l=\left(\mathrm{f}^{\prime}(x)=6 x-4\right) \\
.3=\left(\mathrm{f}^{\prime}(x)=7 x^{6}+12 x^{5}-20 x^{4}+9 x^{2}\right) \\
.5=\left(\mathrm{f}^{\prime}(x)=5-\frac{3}{2 x^{(3 / 2)}}+\frac{1}{2 \sqrt{x}}\right) & .6=\left(\mathrm{f}^{\prime}(x)=\frac{1}{3 x^{(2 / 3)}}-\frac{1}{\left.3 x^{(4 / 3)}-\frac{3}{2 x^{(5 / 2)}}+\frac{2}{3 x^{(1 / 3)}}\right)}\right. \\
.7=\left(\mathrm{f}^{\prime}(x)=64 x^{3}+72 x^{2}+50 x+5\right) & .4=\left(\mathrm{f}^{\prime}(x)=4 x^{4}+\frac{8}{5} x^{3}+\frac{1}{6}\right) \\
.9=\left(\mathrm{f}^{\prime}(x)=-\frac{17}{(5 x-1)^{2}}\right) \\
\left..11=(x)=\frac{3 x-3+10 \sqrt{x}}{2 \sqrt{x}}\right) \\
\left.\mathrm{f}^{\prime}(x)=\frac{60 x^{6}+18 x^{5}-20 x-16}{x^{3}}\right) & .12=\left(\mathrm{f}^{\prime}(x)=\frac{15 x^{6}-30 x^{5}-57 x^{4}-4 x^{3}-12 x^{2}}{(x+1)^{2}}\right)
\end{array}\right],
\end{aligned}
$$

[^3]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM6/1-6600506-00010XX Diff02 Answers for No. 10143

$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{c}
.1=\left(f^{\prime}(x)=1+4 x\right) \\
.2=\left(\mathrm{f}^{\prime}(x)=9 x^{2}\right) \\
.3=\left(\mathrm{f}^{\prime}(x)=-\frac{4}{x^{2}}\right) \\
.4=\left(\mathrm{f}^{\prime}(x)=\frac{2}{\sqrt{x}}\right)
\end{array}\right], \quad, \quad \text { Ans2 }=\left[\begin{array}{c}
.1=\left(\mathrm{f}^{\prime}(4)=144\right) \\
.2=\left(\mathrm{f}^{\prime}(-1)=4\right)
\end{array}\right], \quad, \quad \text { Ans } 4=\left[\begin{array}{c}
.1=\left[\mathrm{f}^{\prime}(1)=6\right] \\
.2=\left[\mathrm{f}^{\prime}(-2)=-816\right]
\end{array}\right]
\end{aligned}
$$

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$$
\text { AnsI }=\left[\begin{array}{c}
.1=\left(\mathrm{f}^{\prime}(x)=6 x+5\right) \\
.2=\left(\mathrm{f}^{\prime}(x)=6 x^{2}\right) \\
.3=\left(\mathrm{f}^{\prime}(x)=-\frac{6}{x^{2}}\right) \\
3
\end{array}\right), \quad, \text { Ans2 } 2=\left[\begin{array}{l}
.1=\left(\mathrm{f}^{\prime}(4)=96\right) \\
.2=(\mathrm{f}(2)=-1)
\end{array}\right], \quad \text {, Ans } 4=\left[\begin{array}{l}
.1=\left[\begin{array}{l}
\mathrm{f} \\
\\
(1)=\frac{7}{2}
\end{array}\right] \\
.2=[\mathrm{f}(2)=165]
\end{array}\right]
$$

$$
\text { Ans } 3=\left[\begin{array}{cc}
. l=\left(\mathrm{f}^{\prime}(x)=6 x+5\right) & .2=\left(\mathrm{f}^{\prime}(x)=6 x^{2}\right) \\
.3=\left(\mathrm{f}^{\prime}(x)=20 x^{3}+4 x-3\right) \\
.5=\left(\mathrm{f}^{\prime}(x)=2+\frac{2}{\sqrt{x}}-\frac{1}{2 x^{(3 / 2)}}\right) & .6=\left(\mathrm{f}^{\prime}(x)=\frac{5}{6 x^{(1 / 6)}}-\frac{6}{5 x^{(11 / 5)}}-\frac{5}{6 x^{(11 / 6)}}+\frac{6 x^{(1 / 5)}}{5}\right) \\
.7=\left(\mathrm{f}^{\prime}(x)=6 x^{2}+4 x-5\right) & \left.. \frac{5}{3} x^{4}-\frac{4}{5} x^{3}+\frac{1}{3}\right) \\
.9=\left(\mathrm{f}^{\prime}(x)=-\frac{26}{(4 x-3)^{2}}\right) & 8=\left(\mathrm{f}^{\prime}(x)=-\frac{-3 x+6 \sqrt{x}+4}{2 \sqrt{x}}\right) \\
.11=\left(\mathrm{f}^{\prime}(x)=\frac{6 x^{4}+15 x^{3}-2 x-20}{x^{3}}\right) & .10=\left(\mathrm{f}^{\prime}(x)=\frac{39 x^{7}-2}{2 x^{(3 / 2)}}\right)
\end{array}\right],
$$

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\end{array}\right]\right.} \\
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T
\end{array}\right]} \\
\frac{3}{:( }
\end{array}\right]
$$

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$$
\begin{aligned}
& {\left[. l=\left(\mathrm{f}^{\prime}(x)=6 x-2\right)\right.} \\
& .3=\left(\mathrm{f}(x)=28 x^{6}-12 x^{3}+15 x^{2}\right) \\
& .2=\left(f^{\prime}(x)=18 x^{2}\right) \\
& .4=\left(\mathrm{f}^{\prime}(x)=\frac{-}{2} x^{2}+5 x\right) \\
& .5=\left(f^{\prime}(x)=-\frac{1}{x^{(3 / 2)}}-1+\frac{3}{2 \sqrt{x}}\right) \\
& \sigma=\left(f(x)=-\frac{1}{(7 / 6)}-\frac{6}{5(11 / 5)}+\frac{1}{6(5 / 6)}\right. \\
& .7=\left(\mathrm{f}^{\prime}(x)=36 x+45 x^{2}+23\right) \\
& .9=\left(\mathrm{f}^{\prime}(x)=\frac{16}{(3 x+2)^{2}}\right) \\
& .8=\left(\mathrm{f}^{\prime}(x)=-\frac{5 x^{6} x^{(7 / 6)}}{2 \sqrt{x}}\right) \\
& .10=\left(\mathrm{f}^{\prime}(x)=\frac{5\left(3 x^{2}+1\right)}{2 \sqrt{x}}\right) \\
& .11=\left(\mathrm{f}^{\prime}(x)=\frac{2 x^{4}-5 x^{2}-9}{x^{4}}\right) \\
& \left..12=\left(\mathrm{f}(x)=\frac{4 x^{5}-x^{4}-24 x^{3}+3 x^{2}-12 x-18}{(x-2)^{2}}\right)\right]
\end{aligned}
$$

[^6]X Math@MUT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXM6/1-6600506-00013XX Diff02 Answers for No. 11188

$$
\begin{aligned}
& \text { Ans } 3=\left[\begin{array}{cc}
.1=\left(\mathrm{f}^{\prime}(x)=4 x-5\right) & .2=\left(\mathrm{f}^{\prime}(x)=15 x^{2}\right) \\
.3=\left(\mathrm{f}^{\prime}(x)=16 x^{3}+9 x^{2}+4 x+1\right) & .4=\left(\mathrm{f}^{\prime}(x)=5 x^{3}+\frac{8}{3} x+\frac{2}{3}\right) \\
.5=\left(\mathrm{f}^{\prime}(x)=2-\frac{1}{\left.2 x^{(3 / 2)}+\frac{5}{2 \sqrt{x}}\right)} \begin{array}{cc}
7=\left(\mathrm{f}(x)=12 x^{3}+42 x^{2}+38 x+12\right) & .6=\left(\mathrm{f}^{\prime}(x)=\frac{5 x^{(2 / 3)}}{3}-\frac{1}{5 x^{(6 / 5)}}-\frac{3}{5 x^{(8 / 5)}}-\frac{5}{3 x^{(8 / 3)}}\right) \\
.9=\left(\mathrm{f}^{\prime}(x)=-\frac{23}{(5 x-2)^{2}}\right) & .8=\left(\mathrm{f}(x)=-\frac{-3 x+6 \sqrt{x}-1}{2 \sqrt{x}}\right) \\
.11=\left(\mathrm{f}^{\prime}(x)=\frac{-3 x^{4}-12 x^{3}-16 x-40}{x^{6}}\right) & .10=\left(\mathrm{f}^{\prime}(x)=\frac{5 x^{3}+3}{2 x^{(3 / 2)}}\right)
\end{array}\right], \\
.12=\left(\mathrm{f}^{\prime}(x)=\frac{10 x^{3}+2 x^{2}-26 x-6}{(x+1)^{2}}\right)
\end{array}\right] \\
& {\left[\begin{array}{c}
\frac{:}{:( } \\
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\end{array}\right]} \\
\vdots \\
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\end{array}\right]} \\
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\end{array}\right]}
\end{aligned}
$$

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$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{c}
. l=\left(\mathrm{f}^{\prime}(x)=2 x+2\right) \\
.2=\left(\mathrm{f}^{\prime}(x)=9 x^{2}\right) \\
.3=\left(\mathrm{f}^{\prime}(x)=-\frac{2}{x^{2}}\right) \\
.4=\left(\mathrm{f}^{\prime}(x)=\frac{1}{x^{(2 / 3)}}\right)
\end{array}\right], \quad, \text { Ans } 2=\left[\begin{array}{c}
.1=\left(\mathrm{f}^{\prime}(3)=81\right) \\
.2=\left(\mathrm{f}(-3)=\frac{8}{27}\right)
\end{array}\right], \quad, \quad \text { Ans } 4=\left[\begin{array}{c}
.1=\left[\mathrm{f}^{\prime}(1)=0\right] \\
.2=\left[\mathrm{f}^{\prime}(2)=276\right]
\end{array}\right]
\end{aligned}
$$

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$$
\text { Ans } \left.=\left[\begin{array}{c}
.1=(\mathrm{f}(x)=10 x-4) \\
.2=\left(\mathrm{f}(x)=6 x^{2}\right) \\
.3=\left(\mathrm{f}^{\prime}(x)=-\frac{2}{x^{2}}\right) \\
.4=\left(\mathrm{f}(x)=\frac{2}{x^{(2 / 3)}}\right)
\end{array}\right], \quad, \text { Ans } 2=\left[\begin{array}{c}
.1=\left(\mathrm{f}^{\prime}(6)=216\right) \\
.2=(\mathrm{f}(-1)=8)
\end{array}\right], \quad \text {, Ans } 4=\left[\begin{array}{l}
.1=[\mathrm{f}(2)=1772] \\
.2=\left[\mathrm{f}^{\prime}(4)=\frac{47}{16}\right.
\end{array}\right]\right]
$$

$$
\text { Ans } 3=\left[\begin{array}{cc}
. l=\left(\mathrm{f}^{\prime}(x)=10 x-4\right) & .2=\left(\mathrm{f}^{\prime}(x)=6 x^{2}\right) \\
.3=\left(\mathrm{f}^{\prime}(x)=28 x^{6}-9 x^{2}+8 x\right) & .4=\left(\mathrm{f}^{\prime}(x)=\frac{20 x^{3}}{3}-\frac{1}{3}\right) \\
.5=\left(\mathrm{f}^{\prime}(x)=2+\frac{2}{\sqrt{x}}-\frac{1}{2 x^{(3 / 2)}}\right) & .6=\left(\mathrm{f}^{\prime}(x)=-\frac{5}{4 x^{(9 / 4)}}+\frac{1}{5 x^{(4 / 5)}}+\frac{4}{5 x^{(1 / 5)}}+\frac{5 x^{(1 / 4)}}{4}\right) \\
.7=\left(\mathrm{f}^{\prime}(x)=36 x^{2}-28 x-25\right) & .8=\left(\mathrm{f}^{\prime}(x)=\frac{3 x+2 \sqrt{x}+3}{2 \sqrt{x}}\right) \\
.9=\left(\mathrm{f}^{\prime}(x)=-\frac{7}{(2 x-3)^{2}}\right) \\
.11=\left(\mathrm{f}^{\prime}(x)=\frac{10 x^{4}+20 x^{3}-3 x-24}{x^{3}}\right) & .10=\left(\mathrm{f}^{\prime}(x)=\frac{5\left(4 x^{2}-1\right)}{2 \sqrt{x}}\right) \\
\left.\mathrm{f}^{\prime}(x)=\frac{5 x^{6}-8 x^{5}-50 x^{4}+10 x^{3}+5 x^{2}-100 x}{(x+2)^{2}}\right)
\end{array}\right],
$$

$\left[\begin{array}{c}\frac{:)}{:( } \\ {\left[\begin{array}{l}P \\ V \\ S \\ S\end{array}\right]} \\ \& \\ {\left[\begin{array}{c}M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T\end{array}\right]} \\ \frac{:)}{:( }\end{array}\right]$
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$$
\begin{aligned}
& \left.\begin{array}{c}
{\left[\begin{array}{c}
:) \\
{\left[\left[\begin{array}{c}
P \\
V \\
S \\
S
\end{array}\right]\right.}
\end{array}\right]} \\
{\left[\left[\begin{array}{c}
d \\
M \\
t \\
h \\
@ \\
M \\
U \\
T
\end{array}\right]\right.} \\
:) \\
\frac{1}{a}
\end{array}\right]
\end{aligned}
$$

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$$
\begin{aligned}
& \text { Ansl }=\left[\begin{array}{c}
.1=\left(\mathrm{f}^{\prime}(x)=10 x+3\right) \\
.2=\left(\mathrm{f}^{\prime}(x)=15 x^{2}\right) \\
.3=\left(\mathrm{f}^{\prime}(x)=-\frac{2}{x^{2}}\right) \\
.4=\left(\mathrm{f}(x)=\frac{1}{\sqrt{x}}\right)
\end{array}\right], \quad, \quad \text { Ans } 2=\left[\begin{array}{c}
.1=\left(\mathrm{f}^{\prime}(4)=96\right) \\
.2=\left(\mathrm{f}^{\prime}(3)=\frac{-4}{9}\right)
\end{array}\right], \quad, \quad \text { Ans } 4=\left[\begin{array}{c}
.1=\left[\mathrm{f}^{\prime}(2)=44\right] \\
.2=\left[\mathrm{f}^{\prime}(1)=-1\right]
\end{array}\right]
\end{aligned}
$$

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$$
\text { Ans } 1=\left[\begin{array}{l}
.1=\left(\mathrm{f}^{\prime}(x)=6 x-5\right) \\
.2=\left(\mathrm{f}^{\prime}(x)=18 x^{2}\right) \\
.3=\left(\mathrm{f}^{\prime}(x)=-\frac{6}{x^{2}}\right) \\
.4=\left(\mathrm{f}^{\prime}(x)=\frac{1}{\sqrt{x}}\right)
\end{array}\right], \quad \text {, Ans } 2=\left[\begin{array}{c}
.1=\left(\mathrm{f}^{\prime}(2)=72\right) \\
.2=\left(\mathrm{f}(-3)=\frac{4}{27}\right)
\end{array}\right], \quad \text {, Ans } 4=\left[\begin{array}{c}
.1=[\mathrm{f}(2)=580] \\
.2=\left[\mathrm{f}^{\prime}(1)=1\right]
\end{array}\right]
$$

$$
\text { Ans } 3=\left[\begin{array}{cc}
.1=\left(\mathrm{f}^{\prime}(x)=6 x-5\right) & .2=\left(\mathrm{f}(x)=18 x^{2}\right) \\
.3=\left(\mathrm{f}^{\prime}(x)=18 x^{5}+6 x^{2}-10 x\right) & .4=\left(\mathrm{f}^{\prime}(x)=\frac{5}{2} x^{4}-\frac{5}{3} x-\frac{3}{2}\right) \\
.5=\left(\mathrm{f}^{\prime}(x)=-\frac{3}{\left.2 x^{(3 / 2)}+\frac{1}{2 \sqrt{x}}+2\right)}\right. & .6=\left(\mathrm{f}(x)=\frac{5 x^{(2 / 3)}}{3}+\frac{3}{5 x^{(2 / 5)}}-\frac{5}{3 x^{(8 / 3)}}-\frac{1}{5 x^{(6 / 5)}}\right) \\
.7=\left(\mathrm{f}^{\prime}(x)=27 x^{2}+42 x+18\right) & .8=\left(\mathrm{f}^{\prime}(x)=-\frac{-3 x+2+10 \sqrt{x}}{2 \sqrt{x}}\right) \\
.9=\left(\mathrm{f}^{\prime}(x)=-\frac{17}{(4 x-1)^{2}}\right) & .10=\left(\mathrm{f}^{\prime}(x)=\frac{27 x^{5}+1}{2 x^{(3 / 2)}}\right) \\
.11=\left(\mathrm{f}^{\prime}(x)=\frac{6 x^{8}-13 x^{4}-75}{x^{6}}\right) & .12=\left(\mathrm{f}^{\prime}(x)=\frac{4 x^{5}+8 x^{4}-30 x^{3}-54 x^{2}}{(x-2)^{2}}\right)
\end{array}\right],
$$



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$$
\begin{aligned}
& \text { AnsI }=\left[\begin{array}{c}
.1=\left(\mathrm{f}^{\prime}(x)=8 x-3\right) \\
.2=\left(\mathrm{f}^{\prime}(x)=6 x^{2}\right) \\
.3=\left(\mathrm{f}^{\prime}(x)=-\frac{3}{x^{2}}\right) \\
1
\end{array}\right), \quad \text {, Ans } 2=\left[\begin{array}{c}
.1=(\mathrm{f}(2)=24) \\
.2=\left(\mathrm{f}^{\prime}(2)=-1\right)
\end{array}\right], \quad \text {, Ans } 4=\left[\begin{array}{c}
.1=\left[\mathrm{f}^{\prime}(2)=320\right] \\
.2=\left[\begin{array}{l} 
\\
\mathrm{f}^{\prime}(1)=\frac{-9}{2}
\end{array}\right]
\end{array}\right] \\
& .4=\left(\mathrm{f}^{\prime}(x)=\frac{1}{\sqrt{x}}\right) \\
& . l=(f(x)=8 x-3) \\
& .3=\left(f^{\prime}(x)=25 x^{4}-8 x^{3}-8 x\right) \\
& .2=\left(f(x)=6 x^{2}\right) \\
& 4=\left(\mathrm{f}^{\prime}(x)=\frac{15}{2} x^{2}-\frac{5}{2} x\right) \\
& .5=\left(\mathrm{f}(x)=-\frac{3}{2 x^{(3 / 2)}}-5+\frac{2}{\sqrt{x}}\right) \\
& .6=\left(\mathrm{f}^{\prime}(x)=-\frac{3}{2 x^{(5 / 2)}}+\frac{1}{3 x^{(2 / 3)}}+\frac{2}{3 x^{(1 / 3)}}-\frac{2}{3 x^{(5 / 3)}}\right) \\
& \text { Ans } 3=.7=\left(\mathrm{f}(x)=64 x^{3}+96 x^{2}+56 x+12\right) \\
& .8=\left(\mathrm{f}(x)=-\frac{-3 x+6 \sqrt{x}+4}{2 \sqrt{x}}\right) \\
& 9=\left(\mathrm{f}^{\prime}(x)=-\frac{23}{(3 x-2)^{2}}\right) \\
& .10=\left(\mathrm{f}(x)=\frac{x^{(7 / 2)}\left(26 x^{2}+27\right)}{2}\right) \\
& .11=\left(\mathrm{f}(x)=\frac{32 x^{6}+6 x^{5}-20 x-10}{x^{3}}\right) \\
& \left..12=\left(\mathrm{f}^{\prime}(x)=\frac{16 x^{5}-19 x^{4}-76 x^{3}-36 x^{2}}{(x+1)^{2}}\right) \quad\right]
\end{aligned}
$$

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$$
\begin{aligned}
& A n s 1=\left[\begin{array}{c}
.1=\left(\mathrm{f}^{\prime}(x)=2 x-3\right) \\
.2=\left(\mathrm{f}^{\prime}(x)=9 x^{2}\right) \\
.3=\left(\mathrm{f}^{\prime}(x)=-\frac{5}{x^{2}}\right) \\
.4=\left(\mathrm{f}^{\prime}(x)=\frac{2}{x^{(2 / 3)}}\right)
\end{array}\right], \quad, \quad \text { Ans } 2=\left[\begin{array}{c}
.1=\left(\mathrm{f}^{\prime}(6)=540\right) \\
.2=\left(\mathrm{f}^{\prime}(3)=\frac{-10}{27}\right)
\end{array}\right], \quad, \quad \text { Ans } 4=\left[\begin{array}{c}
.1=\left[\begin{array}{l} 
\\
\left.\mathrm{f}^{\prime}(-2)=244\right] \\
.2=\left[\mathrm{f}^{\prime}(1)=-4\right]
\end{array}\right]
\end{array}\right.
\end{aligned}
$$

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$$
\text { Ans } 1=\left[\begin{array}{l}
.1=\left(\mathrm{f}^{\prime}(x)=-4+2 x\right) \\
.2=\left(\mathrm{f}(x)=15 x^{2}\right) \\
.3=\left(\mathrm{f}(x)=-\frac{5}{x^{2}}\right) \\
.4=\left(\mathrm{f}^{\prime}(x)=\frac{5}{2 \sqrt{x}}\right)
\end{array}\right], \quad, \text { Ans } 2=\left[\begin{array}{c}
.1=(\mathrm{f}(6)=432) \\
.2=\left(\mathrm{f}^{\prime}(1)=-4\right)
\end{array}\right], \quad, \text { Ans } 4=\left[\begin{array}{l}
.1=\left[\begin{array}{l}
\mathrm{f} \\
\\
\\
\hline
\end{array}(4)=\frac{21}{16}\right] \\
.2=\left[\mathrm{f}^{\prime}(2)=1240\right]
\end{array}\right]
$$

$$
A n s 3=\left[\begin{array}{cc}
. l=\left(\mathrm{f}^{\prime}(x)=-4+2 x\right) & .2=\left(\mathrm{f}^{\prime}(x)=15 x^{2}\right) \\
.3=\left(\mathrm{f}^{\prime}(x)=28 x^{6}-18 x^{5}+6 x^{2}\right) & .4=\left(\mathrm{f}^{\prime}(x)=\frac{25}{4} x^{4}+3 x^{3}-\frac{5}{6}\right) \\
.5=\left(\mathrm{f}^{\prime}(x)=-\frac{3}{2 x^{(3 / 2)}}+\frac{1}{\sqrt{x}}+1\right) & .6=\left(\mathrm{f}^{\prime}(x)=\frac{3}{5 x^{(2 / 5)}}+\frac{1}{5 x^{(4 / 5)}}-\frac{3}{5 x^{(8 / 5)}}-\frac{5}{3 x^{(8 / 3)}}\right) \\
.7=\left(\mathrm{f}^{\prime}(x)=40 x^{3}+69 x^{2}+34 x+4\right) & .8=\left(\mathrm{f}^{\prime}(x)=\frac{3 x+4+2 \sqrt{x}}{2 \sqrt{x}}\right) \\
.9=\left(\mathrm{f}^{\prime}(x)=\frac{13}{(1+5 x)^{2}}\right) & .10=\left(\mathrm{f}^{\prime}(x)=\frac{27 x^{4}-2}{2 \sqrt{x}}\right) \\
.11=\left(\mathrm{f}^{\prime}(x)=\frac{20 x^{6}+45 x^{5}-2 x-12}{x^{3}}\right) & .12=\left(\mathrm{f}^{\prime}(x)=\frac{20 x^{6}+16 x^{5}-400 x^{4}+6 x^{3}+21 x^{2}-120 x}{(x+4)^{2}}\right)
\end{array}\right],
$$

$\left[\begin{array}{c}\frac{:}{:( } \\ {\left[\begin{array}{l}P \\ V \\ S \\ S\end{array}\right]} \\ \vdots \\ {\left[\begin{array}{c}M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T\end{array}\right]} \\ \frac{:)}{:( }\end{array}\right]$

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$$
\begin{aligned}
& \operatorname{Ans} 3=\left[\begin{array}{c}
.1=\left(\mathrm{f}^{\prime}(x)=6 x+2\right) \\
.3=\left(\mathrm{f}^{\prime}(x)=35 x^{6}+12 x^{5}+2 x+5\right) \\
.5=\left(\mathrm{f}^{\prime}(x)=1-\frac{3}{2 x^{(3 / 2)}-\frac{1}{\sqrt{x}}}\right) \\
.7=\left(\mathrm{f}^{\prime}(x)=24 x^{3}+39 x^{2}+42 x+10\right) \\
.9=\left(\mathrm{f}^{\prime}(x)=-\frac{21}{(4 x-5)^{2}}\right) \\
.11=\left(\mathrm{f}^{\prime}(x)=\frac{8 x^{5}-4 x^{3}-20 x^{2}-20}{x^{5}}\right)
\end{array}\right. \\
& \left.\begin{array}{c}
.2=\left(\mathrm{f}^{\prime}(x)=6 x^{2}\right) \\
.4=\left(\mathrm{f}^{\prime}(x)=-\frac{6}{5 x^{(11 / 5)}}-\frac{5}{6 x^{(11 / 6)}}+\frac{1}{6 x^{(5 / 6)}}+\frac{6 x^{(1 / 5)}}{5}\right) \\
.8=\left(\mathrm{f}^{\prime}(x)=-\frac{-3 x+4 \sqrt{x}-1}{2 \sqrt{x}}\right) \\
.10=\left(\mathrm{f}^{\prime}(x)=\frac{2+65 x^{6}}{2 \sqrt{x}}\right)
\end{array}\right], \\
& {\left[\begin{array}{c}
\frac{:)}{\vdots( } \\
{\left[\left[\begin{array}{l}
P \\
V \\
S \\
S
\end{array}\right]\right.}
\end{array}\right]} \\
& \frac{3}{7}
\end{aligned}
$$

[^11]
##  [ $>$


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[^4]:    X [Page $=0010]$ XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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[^6]:    X [Page $=0012]$ XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

[^7]:    X [Page $=0016]$ XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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