

X Math@MUT XX M4/1-6800104-00001XX
Real02 Answers for No.10441

$$Ans1 = \begin{bmatrix} .1 = [r = 18] \\ .2 = [r = 6] \\ .3 = [r = -1] \\ .4 = [r = 4] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = 0] \\ .2 = [m = 0] \\ .3 = [m = \{-3, 2\}] \\ .4 = [m = -5] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x - 5)(x + 5)(x + 4) \\ .2 = (x - 2)(x + 2)(x - 5)(x + 5) \\ .3 = (x - 4)(x^2 + 4x + 16) \\ .4 = (x - 3)(x + 3)(x^2 + 9) \\ .5 = (x + 5)(x + 4)(x + 2)(x - 1) \\ .6 = (x + 1)(x - 2)(x^2 + 2x + 2) \\ .7 = (x + 1)(3x + 4)(2x + 5) \\ .8 = (x - 2)(x - 3)(3x - 1)(5x - 3) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$

X Math@MUT XX M4/1-6800104-00002XX
Real02 Answers for No.10442

$$Ans1 = \begin{bmatrix} .1 = [r = -5] \\ .2 = [r = -5] \\ .3 = [r = -5] \\ .4 = [r = -7] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = 0] \\ .2 = [m = -12] \\ .3 = [m = \{3, 5\}] \\ .4 = [m = -20] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x - 4)(x + 4)(x - 5) \\ .2 = (x - 2)(x + 2)(x - 4)(x + 4) \\ .3 = (x - 3)(x^2 + 3x + 9) \\ .4 = (x - 5)(x + 5)(x^2 + 25) \\ .5 = (x + 2)^2(x + 1)(x - 4) \\ .6 = (x + 2)(x + 1)(x^2 - 4x + 1) \\ .7 = (x + 1)(5x - 4)(2x + 5) \\ .8 = (x + 1)(x - 2)(5x + 1)(2x - 3) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$

[illegible]

.....

$$Ans1 = \begin{bmatrix} .1 = [r = 5] \\ .2 = [r = 1] \\ .3 = [r = 2] \\ .4 = [r = -4] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = 1] \\ .2 = [m = 2] \\ .3 = [m = \{1, 5\}] \\ .4 = [m = -23] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x-3)(x+3)(x-1) \\ .2 = (x-1)(x+1)(x-4)(x+4) \\ .3 = (x+3)(x^2-3x+9) \\ .4 = (x-1)(x+1)(x^2+1) \\ .5 = (x+3)(x-1)(x^2+2x+2) \\ .6 = (x+3)(x+2)^2(x+1) \\ .7 = (x+3)(2x+5)(2x+1) \\ .8 = (x-1)(x+1)(2x-3)(5x-4) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$
$$Ans1 = \begin{bmatrix} .1 = [r = 5] \\ .2 = [r = 7] \\ .3 = [r = -5] \\ .4 = [r = -4] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = 3] \\ .2 = [m = 3] \\ .3 = [m = \{-6, 4\}] \\ .4 = [m = -11] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x-1)(x+1)(x-4) \\ .2 = (x-1)(x+1)(x-3)(x+3) \\ .3 = (x+2)(x^2-2x+4) \\ .4 = (x-4)(x+4)(x^2+16) \\ .5 = (x+3)(x-1)(x^2+3x+1) \\ .6 = (x+1)(x-2)(x-3)(x-4) \\ .7 = (x-3)(5x+6)(4x+1) \\ .8 = (x+1)^2(3x+4)(5x-3) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$

```
X [Page = 0002] xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx  
:  
:  
:  
:  
:  
:  
:  
:  
:
```

X Math@MUT XXXM4/1-6800104-00005XX
Real02 Answers for No.10506

$$Ans1 = \begin{bmatrix} .1 = [r = 3] \\ .2 = [r = -17] \\ .3 = [r = -2] \\ .4 = [r = -7] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = -3] \\ .2 = [m = -1] \\ .3 = [m = \{2, 4\}] \\ .4 = [m = 20] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x - 2)(x + 2)(x - 5) \\ .2 = (x - 1)(x + 1)(x - 3)(x + 3) \\ .3 = (x - 4)(x^2 + 4x + 16) \\ .4 = (x - 5)(x + 5)(x^2 + 25) \\ .5 = (x - 2)(x - 3)(x^2 - 4x + 2) \\ .6 = (x + 3)(x + 1)(x - 2)(x - 6) \\ .7 = (x + 1)(4x + 3)(4x + 1) \\ .8 = (x - 1)(x + 1)(3x - 5)(2x - 5) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$

X Math@MUT XX M4/1-6800104-00006XX
Real02 Answers for No.10514

$$Ans1 = \begin{bmatrix} .1 = [r = -5] \\ .2 = [r = 20] \\ .3 = [r = 1] \\ .4 = [r = -5] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = 6] \\ .2 = [m = 2] \\ .3 = [m = 2] \\ .4 = [m = \{-5, 7\}] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x-2)(x+2)(x+1) \\ .2 = (x-2)(x+2)(x-4)(x+4) \\ .3 = (x-1)(x^2+x+1) \\ .4 = (x-1)(x+1)(x^2+1) \\ .5 = (x+3)(x-2)(x^2-4x+1) \\ .6 = (x+6)(x+3)(x+2)(x+1) \\ .7 = (x-1)(5x+3)(2x+5) \\ .8 = (x-2)(x+2)(5x-1)(3x-5) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$

[illegible]

⋮

X Math@MUT XX M4/1-6800104-00007XX
Real02 Answers for No.10520

$$Ans1 = \begin{bmatrix} .1 = [r = -9] \\ .2 = [r = 1] \\ .3 = [r = 5] \\ .4 = [r = -2] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = -4] \\ .2 = [m = 0] \\ .3 = [m = \{-1, 7\}] \\ .4 = [m = 6] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x - 5)(x + 5)(x - 4) \\ .2 = (x - 2)(x + 2)(x - 5)(x + 5) \\ .3 = (x + 2)(x^2 - 2x + 4) \\ .4 = (x - 3)(x + 3)(x^2 + 9) \\ .5 = (x + 3)(x + 1)(x - 3)(x - 6) \\ .6 = (x + 2)(x + 1)(x^2 - 4x + 1) \\ .7 = (x + 1)(4x - 5)(3x - 1) \\ .8 = (x - 2)(x - 3)(2x - 5)(4x + 1) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$

X Math@MUT XX M4/1-6800104-00008XX
Real02 Answers for No.10638

$$Ans1 = \begin{bmatrix} .1 = [r = -20] \\ .2 = [r = -5] \\ .3 = [r = -2] \\ .4 = [r = 6] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = -1] \\ .2 = [m = -4] \\ .3 = [m = -6] \\ .4 = [m = \{-6, 2\}] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x-2)(x+2)(x-1) \\ .2 = (x-2)(x+2)(x-4)(x+4) \\ .3 = (x+5)(x^2-5x+25) \\ .4 = (x-5)(x+5)(x^2+25) \\ .5 = (x+2)(x-3)(x^2-4x+1) \\ .6 = (x+5)(x+1)(x-2)(x-5) \\ .7 = (x+3)(3x+1)(4x+5) \\ .8 = (x-1)(x+3)(2x+5)(5x+1) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$

[illegible]

.....

$$Ans1 = \begin{bmatrix} .1 = [r = 7] \\ .2 = [r = 7] \\ .3 = [r = -4] \\ .4 = [r = -5] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = -3] \\ .2 = [m = -1] \\ .3 = [m = \{-2, 1\}] \\ .4 = [m = 0] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x - 1)(x + 1)(x + 2) \\ .2 = (x - 1)(x + 1)(x - 4)(x + 4) \\ .3 = (x + 4)(x^2 - 4x + 16) \\ .4 = (x - 3)(x + 3)(x^2 + 9) \\ .5 = (x + 3)(x - 2)(x^2 + 2x + 2) \\ .6 = (x + 3)(x + 2)(x + 1)(x - 6) \\ .7 = (x + 2)(5x + 6)(3x + 1) \\ .8 = (x - 2)(x + 2)(2x - 1)(3x - 5) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$
$$Ans1 = \begin{bmatrix} .1 = [r = 10] \\ .2 = [r = 10] \\ .3 = [r = -2] \\ .4 = [r = -4] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = 4] \\ .2 = [m = 5] \\ .3 = [m = \{2, 3\}] \\ .4 = [m = 0] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x - 2)(x + 2)(x - 4) \\ .2 = (x - 2)(x + 2)(x - 5)(x + 5) \\ .3 = (x + 1)(x^2 - x + 1) \\ .4 = (x - 4)(x + 4)(x^2 + 16) \\ .5 = (x + 4)(x + 2)(x - 1)(x - 2) \\ .6 = (x + 3)(x + 2)(x^2 - 5x + 2) \\ .7 = (x - 2)(5x - 1)(2x + 1) \\ .8 = (x - 1)(x - 3)(2x + 1)(2x - 5) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$
[illegible]

X Math@MUT XX M4/1-6800104-00013XX
Real02 Answers for No.10777

$$Ans1 = \begin{bmatrix} .1 = [r = 15] \\ .2 = [r = -5] \\ .3 = [r = 5] \\ .4 = [r = 6] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = 0] \\ .2 = [m = 1] \\ .3 = [m = 25] \\ .4 = [m = \{-3, 6\}] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x-1)(x+1)(x-3) \\ .2 = (x-1)(x+1)(x-4)(x+4) \\ .3 = (x-3)(x^2+3x+9) \\ .4 = (x-3)(x+3)(x^2+9) \\ .5 = (x+3)(x+2)(x^2+4x+2) \\ .6 = (x+3)(x+2)(x+1)(x-2) \\ .7 = (x+1)(3x+4)(3x+1) \\ .8 = (x-1)^2(3x+2)(5x-1) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$

X Math@MUT XXXM4/1-6800104-00014XX
Real02 Answers for No.10816

$$Ans1 = \begin{bmatrix} .1 = [r = 13] \\ .2 = [r = 17] \\ .3 = [r = 1] \\ .4 = [r = 5] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = -1] \\ .2 = [m = -16] \\ .3 = [m = \{3, 7\}] \\ .4 = [m = -3] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x - 5)(x + 5)(x + 4) \\ .2 = (x - 1)(x + 1)(x - 4)(x + 4) \\ .3 = (x + 4)(x^2 - 4x + 16) \\ .4 = (x - 4)(x + 4)(x^2 + 16) \\ .5 = (x + 2)(x - 3)(x^2 + 4x + 1) \\ .6 = (x + 6)(x + 5)(x + 2)(x + 1) \\ .7 = (x - 1)(5x - 4)(4x + 3) \\ .8 = (x - 1)(x + 2)(2x - 5)(4x - 3) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$

[illegible]

.....

X Math@MUT XX M4/1-6800104-00015XX
Real02 Answers for No.10818

$$Ans1 = \begin{bmatrix} .1 = [r = -1] \\ .2 = [r = -5] \\ .3 = [r = 2] \\ .4 = [r = -4] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = -2] \\ .2 = [m = -4] \\ .3 = [m = -8] \\ .4 = [m = \{4, 6\}] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x - 5)(x + 5)(x + 3) \\ .2 = (x - 1)(x + 1)(x - 5)(x + 5) \\ .3 = (x - 5)(x^2 + 5x + 25) \\ .4 = (x - 4)(x + 4)(x^2 + 16) \\ .5 = (x - 1)(x - 3)(x^2 + x + 2) \\ .6 = (x + 2)(x - 1)(x - 2)(x - 4) \\ .7 = (x - 1)(4x - 5)(2x - 1) \\ .8 = (x - 1)(x + 2)(3x + 5)(5x - 3) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$

X Math@MUT XX M4/1-6800104-00016XX
Real02 Answers for No.10827

$$Ans1 = \begin{bmatrix} .1 = [r = 20] \\ .2 = [r = 2] \\ .3 = [r = -3] \\ .4 = [r = -6] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = 0] \\ .2 = [m = 3] \\ .3 = [m = \{-7, 6\}] \\ .4 = [m = 8] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x - 2)(x + 2)(x + 1) \\ .2 = (x - 2)(x + 2)(x - 5)(x + 5) \\ .3 = (x + 3)(x^2 - 3x + 9) \\ .4 = (x - 2)(x + 2)(x^2 + 4) \\ .5 = (x + 4)(x + 3)(x + 1)(x - 5) \\ .6 = (x - 1)(x - 3)(x^2 - 3x + 1) \\ .7 = (x - 2)(5x + 2)(3x - 4) \\ .8 = (x + 3)(x + 1)(5x + 6)(3x + 2) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$

[illegible]

⋮

X Math@MUT XX M4/1-6800104-00019XX
Real02 Answers for No.11874

$$Ans1 = \begin{bmatrix} .1 = [r = 7] \\ .2 = [r = 20] \\ .3 = [r = -6] \\ .4 = [r = 4] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = 0] \\ .2 = [m = 4] \\ .3 = [m = \{-7, 6\}] \\ .4 = [m = 15] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x-1)(x+1)(x-5) \\ .2 = (x-1)(x+1)(x-4)(x+4) \\ .3 = (x+3)(x^2-3x+9) \\ .4 = (x-2)(x+2)(x^2+4) \\ .5 = (x+2)(x+1)(x^2+x+2) \\ .6 = (x+4)(x+3)(x+1)(x-4) \\ .7 = (x+3)(3x-5)(5x-2) \\ .8 = (x-2)^2(3x-4)(5x+1) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$

X Math@MUT XX M4/1-6800104-00020XX
Real02 Answers for No.11877

$$Ans1 = \begin{bmatrix} .1 = [r = 15] \\ .2 = [r = -4] \\ .3 = [r = -3] \\ .4 = [r = 4] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = 3] \\ .2 = [m = -4] \\ .3 = [m = \{3, 6\}] \\ .4 = [m = 9] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x - 4)(x + 4)(x - 5) \\ .2 = (x - 2)(x + 2)(x - 4)(x + 4) \\ .3 = (x - 5)(x^2 + 5x + 25) \\ .4 = (x - 4)(x + 4)(x^2 + 16) \\ .5 = (x + 5)(x + 2)(x - 1)(x - 5) \\ .6 = (x + 3)(x + 2)(x^2 - 5x + 2) \\ .7 = (x + 1)(5x - 2)(2x - 3) \\ .8 = (x + 1)^2(5x + 1)(3x - 1) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$

[illegible]

.....

X Math@MUT XX M4/1-6800104-00021XX
Real02 Answers for No.11945

$$Ans1 = \begin{bmatrix} .1 = [r = 8] \\ .2 = [r = -11] \\ .3 = [r = -6] \\ .4 = [r = 3] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = 0] \\ .2 = [m = 0] \\ .3 = [m = \{6, 7\}] \\ .4 = [m = -8] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x - 3)(x + 3)(x + 5) \\ .2 = (x - 1)(x + 1)(x - 4)(x + 4) \\ .3 = (x + 4)(x^2 - 4x + 16) \\ .4 = (x - 4)(x + 4)(x^2 + 16) \\ .5 = (x + 6)(x + 2)(x + 1)(x - 4) \\ .6 = (x + 3)(x - 1)(x^2 + 4x + 2) \\ .7 = (x - 1)(3x - 2)(5x + 1) \\ .8 = (x + 1)(x - 2)(4x + 3)(5x + 6) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$

X Math@MUT XX M4/1-6800104-00022XX
Real02 Answers for No.12216

$$Ans1 = \begin{bmatrix} .1 = [r = -2] \\ .2 = [r = -20] \\ .3 = [r = 2] \\ .4 = [r = 5] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = 15] \\ .2 = [m = 2] \\ .3 = [m = -23] \\ .4 = [m = \{-6, -5\}] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x-1)(x+1)(x+4) \\ .2 = (x-1)(x+1)(x-5)(x+5) \\ .3 = (x+4)(x^2-4x+16) \\ .4 = (x-1)(x+1)(x^2+1) \\ .5 = (x+1)(x-3)(x^2+5x+2) \\ .6 = (x+1)(x-2)(x-4)(x-5) \\ .7 = (x+2)(2x-1)(4x-5) \\ .8 = (x-2)(x+3)(3x-1)(3x-5) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$

[illegible]

⋮

X Math@MUT XX M4/1-6800104-00026XX
Real02 Answers for No.13790

```
X [Page = 0013] XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
:  
:  
:  
:  
:  
:  
:  
:
```


X Math@MUT XX M4/1-6800104-00029XX
Real02 Answers for No.13795

$$Ans1 = \begin{bmatrix} .1 = [r = 18] \\ .2 = [r = 6] \\ .3 = [r = -6] \\ .4 = [r = 5] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = 0] \\ .2 = [m = -7] \\ .3 = [m = \{-4, -1\}] \\ .4 = [m = -19] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x-1)(x+1)(x-2) \\ .2 = (x-1)(x+1)(x-3)(x+3) \\ .3 = (x+1)(x^2-x+1) \\ .4 = (x-2)(x+2)(x^2+4) \\ .5 = (x+3)(x+1)(x^2+x+2) \\ .6 = (x+4)(x+2)(x-1)(x-2) \\ .7 = (x+3)(3x+4)(5x-2) \\ .8 = (x+1)(x+2)(5x+1)(3x-4) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$

X Math@MUT XX M4/1-6800104-00030XX
Real02 Answers for No.13831

$$Ans1 = \begin{bmatrix} .1 = [r = 1] \\ .2 = [r = 4] \\ .3 = [r = 5] \\ .4 = [r = 1] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = -2] \\ .2 = [m = -3] \\ .3 = [m = 3] \\ .4 = [m = \{1, 3\}] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x - 3)(x + 3)(x - 5) \\ .2 = (x - 1)(x + 1)(x - 2)(x + 2) \\ .3 = (x - 1)(x^2 + x + 1) \\ .4 = (x - 5)(x + 5)(x^2 + 25) \\ .5 = (x + 1)(x - 2)(x - 4)(x - 5) \\ .6 = (x - 2)(x - 3)(x^2 + 3x + 1) \\ .7 = (x + 1)(5x - 6)(3x + 4) \\ .8 = (x - 1)(x + 2)(4x - 1)(5x - 1) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$

[illegible]

.....

X Math@MUT XX M4/1-6800104-00032XX
Real02 Answers for No.13915

```
X [Page = 0016] XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
:  
:  
:  
:  
:  
:  
:  
:  
:
```

X Math@MUT XX M4/1-6800104-00033XX
Real02 Answers for No.14004

$$Ans1 = \begin{bmatrix} .1 = [r = 7] \\ .2 = [r = 1] \\ .3 = [r = 2] \\ .4 = [r = 4] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = 0] \\ .2 = [m = -9] \\ .3 = [m = 8] \\ .4 = [m = \{-3, 1\}] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x-1)(x+1)(x+2) \\ .2 = (x-3)(x+3)(x-4)(x+4) \\ .3 = (x+5)(x^2-5x+25) \\ .4 = (x-2)(x+2)(x^2+4) \\ .5 = (x+3)(x+1)(x^2-5x+1) \\ .6 = (x+4)(x+2)(x-1)(x-2) \\ .7 = (x+3)(3x+2)(3x-1) \\ .8 = (x+1)(x-2)(2x-1)(5x-2) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$

X Math@MUT XX M4/1-6800104-00034XX
Real02 Answers for No.14013

$$Ans1 = \begin{bmatrix} .1 = [r = 15] \\ .2 = [r = -6] \\ .3 = [r = 1] \\ .4 = [r = -2] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = 0] \\ .2 = [m = -18] \\ .3 = [m = \{-1, 4\}] \\ .4 = [m = -10] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x - 5)(x + 5)(x - 4) \\ .2 = (x - 1)(x + 1)(x - 5)(x + 5) \\ .3 = (x - 3)(x^2 + 3x + 9) \\ .4 = (x - 1)(x + 1)(x^2 + 1) \\ .5 = (x + 6)(x + 3)(x + 1)(x - 3) \\ .6 = (x + 3)(x + 1)(x^2 + 4x + 2) \\ .7 = (x - 2)(3x + 2)(2x - 1) \\ .8 = (x - 3)(x + 3)(3x - 1)(5x + 1) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$

[illegible]

.....

X Math@MUT XX M4/1-6800104-00035XX
Real02 Answers for No.14037

$$Ans1 = \begin{bmatrix} .1 = [r = 10] \\ .2 = [r = 16] \\ .3 = [r = -6] \\ .4 = [r = 2] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = -1] \\ .2 = [m = 0] \\ .3 = [m = -2] \\ .4 = [m = \{-1, 6\}] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x - 2)(x + 2)(x + 5) \\ .2 = (x - 1)(x + 1)(x - 4)(x + 4) \\ .3 = (x + 1)(x^2 - x + 1) \\ .4 = (x - 5)(x + 5)(x^2 + 25) \\ .5 = (x + 6)(x + 1)(x - 2)(x - 3) \\ .6 = (x + 2)(x + 1)(x^2 - 2x + 2) \\ .7 = (x - 2)(2x - 1)(3x + 5) \\ .8 = (x - 1)(x + 3)(5x - 1)(4x - 1) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$

X Math@MUT XX M4/1-6800104-00036XX
Real02 Answers for No.14452

$$Ans1 = \begin{bmatrix} .1 = [r = 15] \\ .2 = [r = 10] \\ .3 = [r = 5] \\ .4 = [r = 3] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = -3] \\ .2 = [m = 12] \\ .3 = [m = \{-1, 7\}] \\ .4 = [m = 0] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x-3)(x+3)(x+1) \\ .2 = (x-2)(x+2)(x-3)(x+3) \\ .3 = (x+5)(x^2-5x+25) \\ .4 = (x-5)(x+5)(x^2+25) \\ .5 = (x+3)(x+1)(x-2)(x-5) \\ .6 = (x+3)(x+2)(x^2+x+1) \\ .7 = (x-1)(2x-3)(3x+5) \\ .8 = (x-2)(x-3)(4x-3)(5x-1) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$

[illegible]

⋮

X Math@MUT XX M4/1-6800104-00037XX
Real02 Answers for No.14823

$$Ans1 = \begin{bmatrix} .1 = [r = -10] \\ .2 = [r = -19] \\ .3 = [r = 7] \\ .4 = [r = -6] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = 5] \\ .2 = [m = -1] \\ .3 = [m = \{-2, 3\}] \\ .4 = [m = 6] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x-1)(x+1)(x-3) \\ .2 = (x-2)(x+2)(x-5)(x+5) \\ .3 = (x-5)(x^2+5x+25) \\ .4 = (x-1)(x+1)(x^2+1) \\ .5 = (x+2)(x-3)(x^2+4x+1) \\ .6 = (x+2)(x+1)(x-2)(x-6) \\ .7 = (x-1)(5x-4)(3x-2) \\ .8 = (x-2)(x-3)(4x+1)(5x-1) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$

X Math@MUT XX M4/1-6800104-00038XX
Real02 Answers for No.14824

$$Ans1 = \begin{bmatrix} .1 = [r = 20] \\ .2 = [r = -4] \\ .3 = [r = 6] \\ .4 = [r = -3] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = 3] \\ .2 = [m = 9] \\ .3 = [m = \{-1, 3\}] \\ .4 = [m = 9] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x-5)(x+5)(x-4) \\ .2 = (x-3)(x+3)(x-5)(x+5) \\ .3 = (x+1)(x^2-x+1) \\ .4 = (x-1)(x+1)(x^2+1) \\ .5 = (x+5)(x+2)(x-1)(x-4) \\ .6 = (x+1)(x-2)(x^2-4x+2) \\ .7 = (x-1)(5x+3)(3x-5) \\ .8 = (x-2)(x-1)(4x+3)(4x+1) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$

[illegible]

.....

$$Ans1 = \begin{bmatrix} .1 = [r = -16] \\ .2 = [r = -2] \\ .3 = [r = 3] \\ .4 = [r = -3] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .1 = [m = 0] \\ .2 = [m = -3] \\ .3 = [m = -9] \\ .4 = [m = \{3, 4\}] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .1 = (x - 4)(x + 4)(x + 1) \\ .2 = (x - 2)(x + 2)(x - 4)(x + 4) \\ .3 = (x + 1)(x^2 - x + 1) \\ .4 = (x - 2)(x + 2)(x^2 + 4) \\ .5 = (x + 5)(x + 3)(x + 2)(x + 1) \\ .6 = (x + 3)(x - 2)(x^2 - 2x + 2) \\ .7 = (x + 1)(2x - 3)(2x - 5) \\ .8 = (x - 1)(x + 1)(4x - 1)(4x + 3) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$
$$Ans1 = \begin{bmatrix} .I = [r = -8] \\ .2 = [r = -6] \\ .3 = [r = 1] \\ .4 = [r = -4] \end{bmatrix}, \quad Ans2 = \begin{bmatrix} .I = [m = 0] \\ .2 = [m = -3] \\ .3 = [m = \{-4, 3\}] \\ .4 = [m = 0] \end{bmatrix}, \quad Ans3 = \begin{bmatrix} .I = (x-4)(x+4)(x-1) \\ .2 = (x-2)(x+2)(x-3)(x+3) \\ .3 = (x-1)(x^2+x+1) \\ .4 = (x-5)(x+5)(x^2+25) \\ .5 = (x+3)(x+1)(x-4)(x-5) \\ .6 = (x-1)(x-2)(x^2-x+2) \\ .7 = (x-3)(5x-2)(3x+1) \\ .8 = (x+3)(x+1)(3x-2)(5x-3) \end{bmatrix}, \quad \begin{bmatrix} :D \\ M \\ a \\ t \\ h \\ @ \\ M \\ U \\ T \\ :D \end{bmatrix}$$

```
X [Page = 0020] XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
:  
:  
:  
:  
:  
:  
:  
:  
:
```

X Math@MUT XX M4/1-6800104-00042XX
Real02 Answers for No.15009

```
X [Page = 0021] XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  
:  
:  
:  
:  
:  
:  
:  
:  
:
```

$$[\quad]$$