



$$2x + 3 \overline{) 14x^3 + 33x^2 + 2x - 24}$$

$$-5x + 3 \overline{) 15x^3 - 39x^2 + 8x + 6}$$



## Answer Key

$$\begin{array}{r} 7x^2 + 6x - 8 \\ 2x + 3 \overline{) 14x^3 + 33x^2 + 2x - 24} \\ \underline{14x^3 + 21x^2} \phantom{+ 2x - 24} \\ 12x^2 + 2x - 24 \\ \underline{12x^2 + 18x} \phantom{- 24} \\ -16x - 24 \\ \underline{-16x - 24} \\ 0 \end{array}$$

$$\begin{array}{r} -3x^2 + 6x + 2 \\ -5x + 3 \overline{) 15x^3 - 39x^2 + 8x + 6} \\ \underline{15x^3 - 9x^2} \phantom{+ 8x + 6} \\ -30x^2 + 8x + 6 \\ \underline{-30x^2 + 18x} \phantom{+ 6} \\ -10x + 6 \\ \underline{-10x + 6} \\ 0 \end{array}$$



$$\begin{array}{r} -5x - 6 \overline{) -20x^3 - 69x^2 - 99x - 54} \\ \hline \end{array}$$

$$\begin{array}{r} 9x - 7 \overline{) 72x^3 - 38x^2 + 67x - 63} \\ \hline \end{array}$$



## Answer Key

$$\begin{array}{r} 4x^2 + 9x + 9 \\ -5x - 6 \overline{) -20x^3 - 69x^2 - 99x - 54} \\ \underline{-20x^3 - 24x^2} \phantom{- 99x - 54} \\ -45x^2 - 99x - 54 \\ \underline{-45x^2 - 54x} \phantom{- 54} \\ -45x - 54 \\ \underline{-45x - 54} \\ 0 \end{array}$$

$$\begin{array}{r} 8x^2 + 2x + 9 \\ 9x - 7 \overline{) 72x^3 - 38x^2 + 67x - 63} \\ \underline{72x^3 - 56x^2} \phantom{+ 67x - 63} \\ 18x^2 + 67x - 63 \\ \underline{18x^2 - 14x} \phantom{- 63} \\ 81x - 63 \\ \underline{81x - 63} \\ 0 \end{array}$$



$$x - 1 \overline{) 4x^3 - x^2 - 7x + 4}$$

$$4x + 1 \overline{) 12x^3 - 17x^2 + 15x + 5}$$



## Answer Key

$$\begin{array}{r} 4x^2 + 3x - 4 \\ x - 1 \overline{) 4x^3 - x^2 - 7x + 4} \\ \underline{4x^3 - 4x^2} \phantom{+ 4} \\ 3x^2 - 7x + 4 \\ \underline{3x^2 - 3x} \phantom{+ 4} \\ -4x + 4 \\ \underline{-4x + 4} \\ 0 \end{array}$$

$$\begin{array}{r} 3x^2 - 5x + 5 \\ 4x + 1 \overline{) 12x^3 - 17x^2 + 15x + 5} \\ \underline{12x^3 + 3x^2} \phantom{+ 5} \\ -20x^2 + 15x + 5 \\ \underline{-20x^2 - 5x} \phantom{+ 5} \\ 20x + 5 \\ \underline{20x + 5} \\ 0 \end{array}$$



$$4x + 7 \overline{) 12x^3 - 15x^2 - 75x - 21}$$

$$-6x + 6 \overline{) 6x^2 - 60x + 54}$$



## Answer Key

$$\begin{array}{r} 3x^2 - 9x - 3 \\ 4x + 7 \overline{) 12x^3 - 15x^2 - 75x - 21} \\ \underline{12x^3 + 21x^2} \phantom{- 75x - 21} \\ -36x^2 - 75x - 21 \\ \underline{-36x^2 - 63x} \phantom{- 21} \\ -12x - 21 \\ \underline{-12x - 21} \\ 0 \end{array}$$

$$\begin{array}{r} -x + 9 \\ -6x + 6 \overline{) 6x^2 - 60x + 54} \\ \underline{6x^2 - 6x} \phantom{+ 54} \\ -54x + 54 \\ \underline{-54x + 54} \\ 0 \end{array}$$





$$\begin{array}{r} -8x + 4 \overline{) -48x^3 + 96x^2 + 36x - 36} \\ \hline \end{array}$$

$$\begin{array}{r} -7x - 6 \overline{) -28x^3 - 59x^2 + 5x + 30} \\ \hline \end{array}$$



## Answer Key

$$\begin{array}{r} 6x^2 - 9x - 9 \\ -8x + 4 \overline{) -48x^3 + 96x^2 + 36x - 36} \\ \underline{-48x^3 + 24x^2} \phantom{- 36} \\ 72x^2 + 36x - 36 \\ \underline{72x^2 - 36x} \phantom{- 36} \\ 72x - 36 \\ \underline{72x - 36} \\ 0 \end{array}$$

$$\begin{array}{r} 4x^2 + 5x - 5 \\ -7x - 6 \overline{) -28x^3 - 59x^2 + 5x + 30} \\ \underline{-28x^3 - 24x^2} \phantom{+ 5x + 30} \\ -35x^2 + 5x + 30 \\ \underline{-35x^2 - 30x} \phantom{+ 30} \\ 35x + 30 \\ \underline{35x + 30} \\ 0 \end{array}$$



$$2x + 4 \overline{) 10x^3 + 4x^2 - 24x + 16}$$

$$3x - 8 \overline{) 24x^3 - 88x^2 + 85x - 56}$$



## Answer Key

$$\begin{array}{r} 5x^2 - 8x + 4 \\ 2x + 4 \overline{) 10x^3 + 4x^2 - 24x + 16} \\ \underline{10x^3 + 20x^2} \phantom{- 24x + 16} \\ -16x^2 - 24x + 16 \\ \underline{-16x^2 - 32x} \phantom{+ 16} \\ 8x + 16 \\ \underline{8x + 16} \\ 0 \end{array}$$

$$\begin{array}{r} 8x^2 - 8x + 7 \\ 3x - 8 \overline{) 24x^3 - 88x^2 + 85x - 56} \\ \underline{24x^3 - 64x^2} \phantom{+ 85x - 56} \\ -24x^2 + 85x - 56 \\ \underline{-24x^2 + 64x} \phantom{- 56} \\ 21x - 56 \\ \underline{21x - 56} \\ 0 \end{array}$$



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