

Use synthetic substitution to evaluate each.

8. $f(x) = x^3 - x^2 - 13x^2 - 39x^2 - 6x + 1$ at $a = -2$

$$\begin{array}{r|rrrrrr} -2 & 1 & -1 & -13 & -39 & -6 & 1 \\ & & -2 & 1 & 25 & 45 & 84 \\ \hline & 1 & -3 & -14 & -14 & 39 & 85 \end{array} \quad f(-2) = 85$$

9. $f(x) = -3x^3 + 21x^2 - 30x^2 + 13x^2 - 6x + 4$ at $a = 1$

$$\begin{array}{r|rrrrrr} 1 & -3 & 18 & -9 & 13 & -6 & 4 \\ & & -3 & 15 & 4 & 7 & 1 \\ \hline & -3 & 15 & 4 & 17 & 1 & 5 \end{array} \quad f(1) = 5$$

Determine whether the given binomial is a factor of the polynomial $f(x)$.

10. $(x - 1)$, $f(x) = 4x^3 - x^2 - 4x + 1$

$$\begin{array}{r|rrrr} 1 & 4 & -1 & -4 & 1 \\ & & 4 & 3 & -5 \\ \hline & 4 & 3 & -1 & -4 \end{array} \quad \text{Since } f(1) \neq 0, \text{ it is not a factor.}$$

11. $(x - 2)$, $f(x) = 3x^3 + x^2 - 6$

$$\begin{array}{r|rrrr} 2 & 3 & 1 & 0 & -6 \\ & & 6 & 13 & 26 \\ \hline & 3 & 7 & 13 & 20 \end{array} \quad \text{Since } f(2) \neq 0, \text{ it is not a factor.}$$

Factor each expression completely.

12. $x^4 + 2x^3 - 16x^2 - 32$

$$\begin{array}{c} x^2 \quad 2 \\ \begin{array}{|c|c|} \hline x^2 & 2x^2 \\ \hline -16x^2 & -32 \end{array} \end{array} = (x^2 + x)(x^2 + 2x - 16x - 32) = \boxed{(x^2 + x)(x - 4)(x + 4)(x^2 + 4)}$$

13. $5x^3 - x^2 - 4x + 1$

$$\begin{array}{c} 5x^2 \quad 1 \\ \begin{array}{|c|c|} \hline 5x^2 & -x^2 \\ \hline -4x & 1 \end{array} \end{array} = (5x - 1)(x^2 - 1) = \boxed{(5x - 1)(x - 1)(x + 1)}$$

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