

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.  $f(x) = -3x^3 + 21x^2 - 39x^2 + 13x^2 - 6x + 4$  at  $a = 1$

$$\begin{array}{r|rrrrrr} 1 & -3 & 18 & -17 & 13 & -6 & 4 \\ & & -3 & 15 & -4 & 7 & -2 \\ \hline & -3 & 15 & -4 & 9 & 1 & 2 \end{array} \quad f(1) = 2$$

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

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

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

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

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

Factor each expression completely.

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

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

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

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

# Unit 4 Review Physic Solutions

**Dan O'Keeffe, Graeme Lofts, Michael  
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