Chapter 6-3c

Assignment: Page 426 # 8 – 11, 25 – 29

Use synthetic substitution to evaluate the polynomial for the given value.

8.
$$P(x) = 2x^3 - 9x^2 + 27$$
 for $x = 2$
9. $P(x) = x^2 - x - 30$ for $x = -8$

10.
$$P(x) = 3x^3 + 5x^2 + 4x + 2$$
 for $x = \frac{1}{3}$
11. $P(x) = 3x^5 + 4x^2 + x + 6$ for $x = -1$

Use synthetic substitution to evaluate the polynomial for the given value.

25.
$$P(x) = 2x^2 - 5x - 3$$
 for $x = 4$
26. $P(x) = 4x^3 - 5x^2 + 3$ for $x = -1$
27. $P(x) = 3x^3 - 5x^2 - x + 2$ for $x = -\frac{1}{3}$
28. $P(x) = 25x^2 - 16$ for $x = \frac{4}{5}$