

## Practice

**Dividing Polynomials****Simplify.**

1.  $(-30x^3y + 12x^2y^2 - 18x^2y) \div (-6x^2y)$

2.  $(2x^2 + 3x - 4) \div (x - 2)$

3.  $(4x^2 - 2x + 6)(2x - 3)^{-1}$

4.  $(x^4 - 3x^3 + 5x - 6) \div (x + 2)$

5.  $(6x^2 - x - 7) \div (3x + 1)$

6.  $(2x^3 + 4x - 6) \div (x + 3)$

**Use synthetic division to find each quotient.**

7.  $(2r^3 + 5r^2 - 2r - 15) \div (2r - 3)$

8.  $(x^4 - 20) \div (x + 2)$