

## 6-4 Multiplying Trinomials

Find each product.

1)  $-7(-7u^2 - 3uv - 3v^2)$

2)  $-6n(8m^2 - 7mn + 8n^2)$

3)  $8x^3(-x^2 + 7xy + 6y^2)$

4)  $-5y(3x^2 + 6xy - 6y^2)$

5)  $(7x + y)(8x^2 - 7xy - 2y^2)$

6)  $(-x - 2y)(-x^2 - 7xy - 5y^2)$

7)  $(x - 2y)(-3x^2 + 4xy + y^2)$

8)  $(5x - 4y)(2x^2 + 7xy + y^2)$

Classify as Monomial, Binomial, or Trinomial.

9)  $-3y + z$

10)  $5$

11)  $x + 3y + 8z$

12)  $-4y - 1$

Name each polynomial by degree and number of terms.

13)  $b^2 + 5b$

14)  $10x^3 - 2$

15)  $-7x^2 - 2x + 4$

16)  $-10m^2 - 10m$

### Multiplying Binomials

- 17) A rectangle has a length of  $(7x + 3)$  cm. and a width of  $(x + 2)$  cm. Find an expression that represents the area of a rectangle. Then simplify.

Simplify.

18)  $\sqrt[3]{54m}$

19)  $\sqrt[3]{875p^5}$

Write each expression in radical form.

20)  $7^{\frac{1}{2}}$