LESSON QUIZ TRANSPARENCY





1. Complete the square for the expression $x^2 - 15x + \blacksquare$. Write the resulting expression as a binomial squared.

Solve each equation.

2.
$$x^2 - 16x + 64 = 20$$

3. $x^2 - 27 = 4x$

Write each function in vertex form and identify its vertex.

4.
$$f(x) = x^2 + 6x - 7$$

5. $f(x) = 2x^2 - 12x - 27$

LESSON QUIZ TRANSPARENCY





1. Complete the square for the expression $x^2 - 15x + \blacksquare$. Write the resulting expression as a binomial squared. $x^2 - 15x + \frac{225}{4} = \left(x - \frac{15}{2}\right)^2$

Solve each equation.

- **2.** $x^2 16x + 64 = 20$ **8 ± 2\sqrt{5}**
- **3.** $x^2 27 = 4x$ **2** $\pm \sqrt{31}$

Write each function in vertex form and identify its vertex.

- **4.** $f(x) = x^2 + 6x 7$ $f(x) = (x + 3)^2 16; (-3, -16)$
- 5. $f(x) = 2x^2 12x 27$ $f(x) = 2(x 3)^2 45; (3, -45)$