

NAME _____ **DATE** _____ **PER.** _____

SOLVING QUADRATIC EQUATIONS BY FACTORING – Day 2

Solve.

1. $4x^2 = 36$

2. Find the solutions to the following quadratic equation: $x^2 = 12x - 27$

3. $2n^2 + 2n = 4$

4. What are the solutions that satisfy $12x^2 = 6x$?

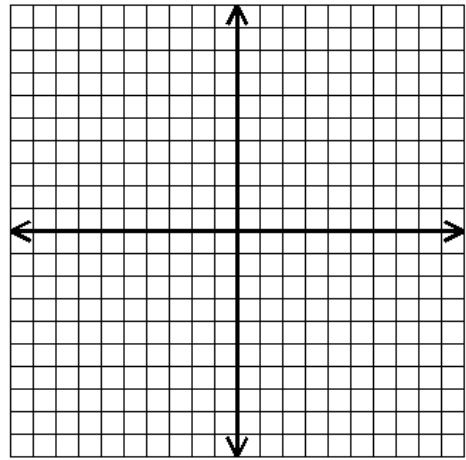
5. $x^2 = 12x - 11$

6. What is the solution set of the equation $0 = y^2 - 49$?

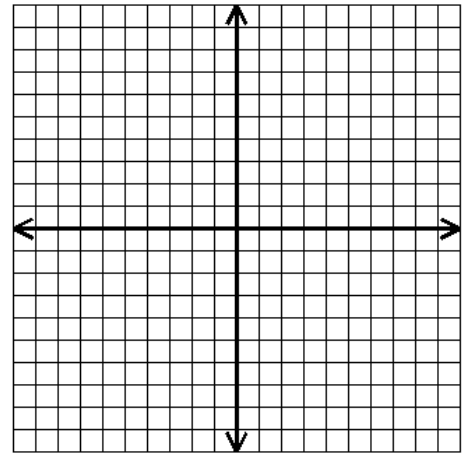
7. The area of a rectangular room is represented by the equation $L^2 - 5L = 36$, where L is the length of the room. Find the length of the room.

Review. Show all work.

8. Graph: $3x - 5y = 10$



9. Solve and graph the inequality $4x - 3y \leq -12$



10. What is the equation of the line having a slope of $-\frac{1}{3}$ and passing through the point $(6, -9)$?