

NAME _____

DATE _____

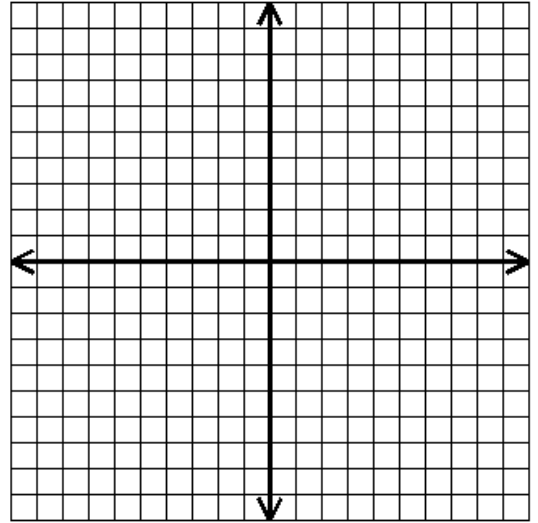
PER. _____

SOLVING QUADRATIC EQUATIONS BY FACTORING – Day 2

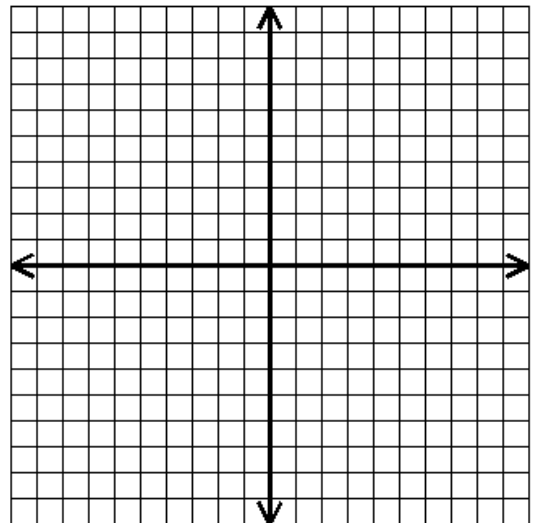
Solve, and sketch a graph of the related quadratic function.

1. Find the solutions to the following quadratic equation:

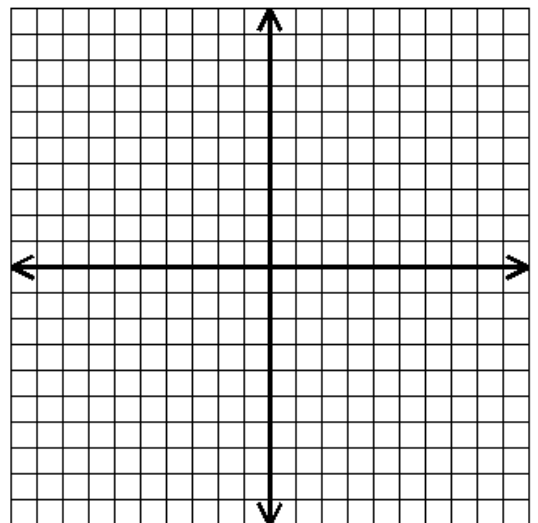
$$x^2 = 12x - 27$$



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



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



Solve.

4. $4x^2 = 36$

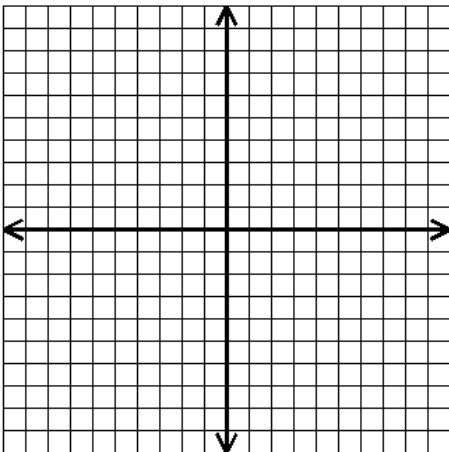
5. $2n^2 + 2n = 4$

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

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 below:
 $4x - 3y \leq -12$

