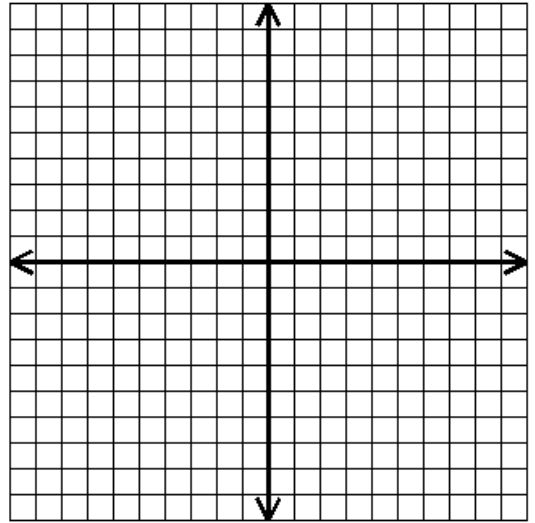


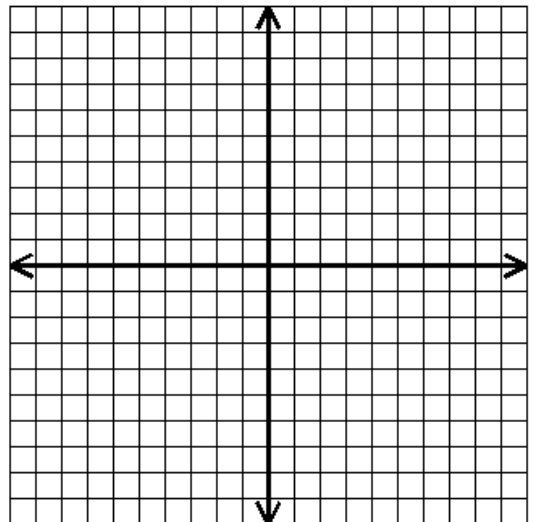
## SOLVING QUADRATIC EQUATIONS BY FACTORING – Day 2

Solve, and sketch a graph of the related function.

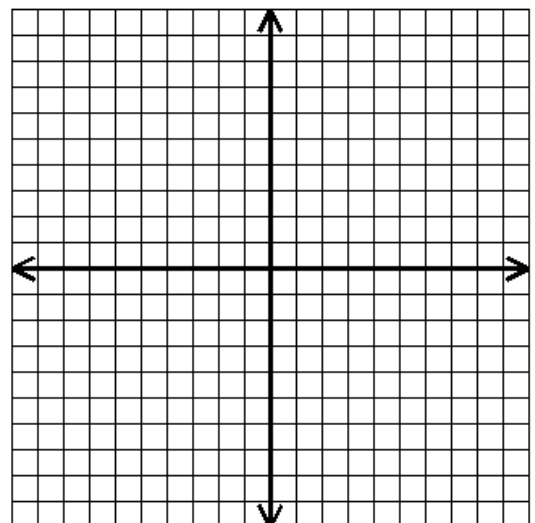
- 1) Find the solutions to the following quadratic equation:  $s^2 = 18s - 81$



- 2) Find the roots of the equation  $3r^2 - 12 = 0$ .



- 3) If  $f(x) = -(2x + 5)(x + 7)$ , find the zeros of  $f(x)$ , and sketch its graph.



**Solve.**

4) Find the zeros of the function  
 $y = 24x^2 - 8x$ .

5) What is the solution set of the equation  
 $156 = -2n^2 - 38n$ ?

6) The area of a rectangular room is given by the equation  $L^2 - 5L = 66$ , where  $L$  is the length of the room. Find the length.