

(a) 
$$x^2 = 5x + 14$$
 (b)  $16x^2 - 25 = 0$  (c)  $\frac{x^2}{5} - \frac{x}{2} = -\frac{1}{5}$ 

2. Write a quadratic equation for which x = -4 and  $x = \frac{3}{2}$  are solutions.

3. Write an equation of a parabola for which x = -4 and  $x = \frac{3}{2}$  are the x-intercepts.

4. Write an equation of a *different* parabola for which x = -4 and  $x = \frac{3}{2}$  are the x-intercepts.

5. Find the point symmetric with the *y*-intercept of the parabola  $y = x^2 - 7x + 5$ .

6. The graph of  $y = -x^2 + x + 6$  is shown to right. Find the values of the intercepts k, m, and n and the coordinates of the vertex (the high point), without a calculator.





