

Algebra I

8.5 Worksheet

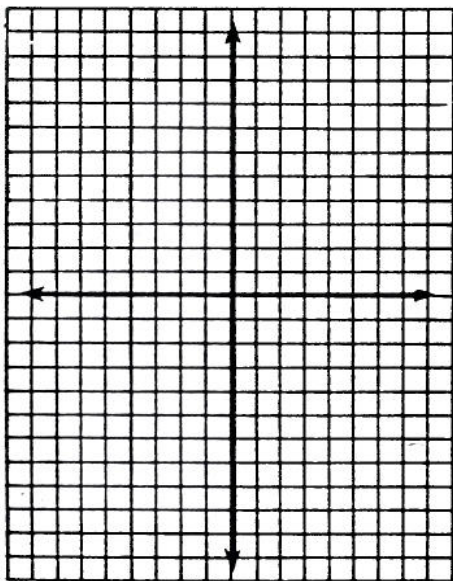
Solving Quadratics Equations in Factored Form

NAME: _____

DATE: _____ HOUR: _____

Find the x- and y-intercepts for each quadratic from its equation then **sketch** using the intercepts and symmetry. Identify the **vertex coordinates** and the **line of symmetry**.

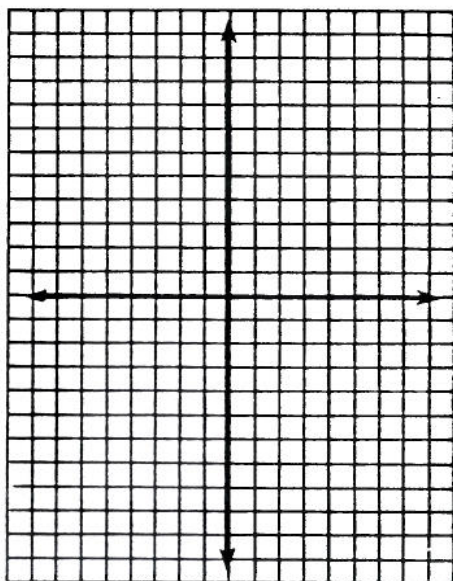
1. $y = 2(x + 3)(x - 1)$ x-intercepts: $x = \underline{\hspace{1cm}}$, $x = \underline{\hspace{1cm}}$ y-intercept: $y = \underline{\hspace{1cm}}$



vertex (,)

line of symmetry $x = \underline{\hspace{1cm}}$

2. $y = -1(x + 4)(x - 2)$ x-intercepts: $x = \underline{\hspace{1cm}}$, $x = \underline{\hspace{1cm}}$ y-intercept: $y = \underline{\hspace{1cm}}$

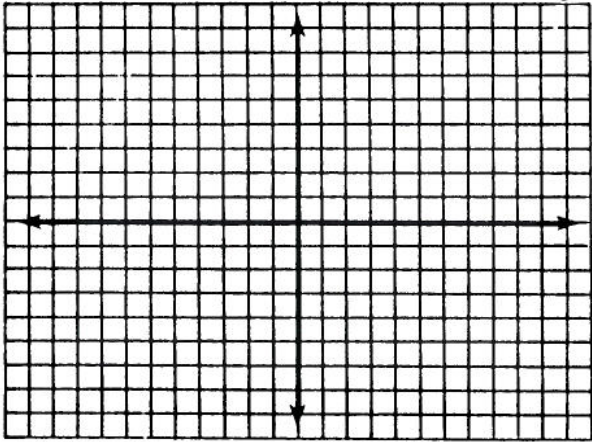


vertex (,)

line of symmetry $x = \underline{\hspace{1cm}}$

3. $y = 3(x + 1)(x - 1)$

x-intercepts: $x = \underline{\hspace{1cm}}$, $x = \underline{\hspace{1cm}}$ y-intercept: $y = \underline{\hspace{1cm}}$

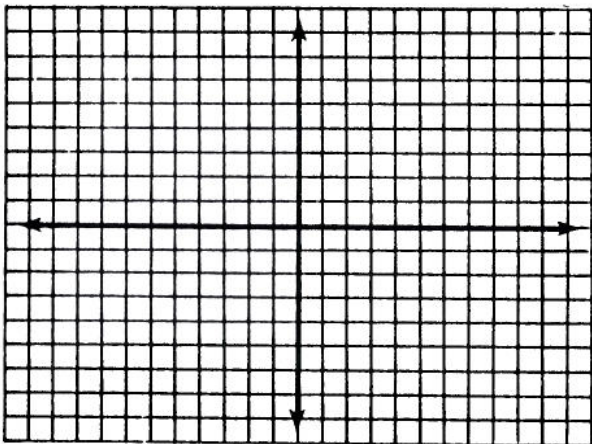


vertex (,)

line of symmetry $x = \underline{\hspace{1cm}}$

4. $y = -1(x + 5)(x - 1)$

x-intercepts: $x = \underline{\hspace{1cm}}$, $x = \underline{\hspace{1cm}}$ y-intercept: $y = \underline{\hspace{1cm}}$

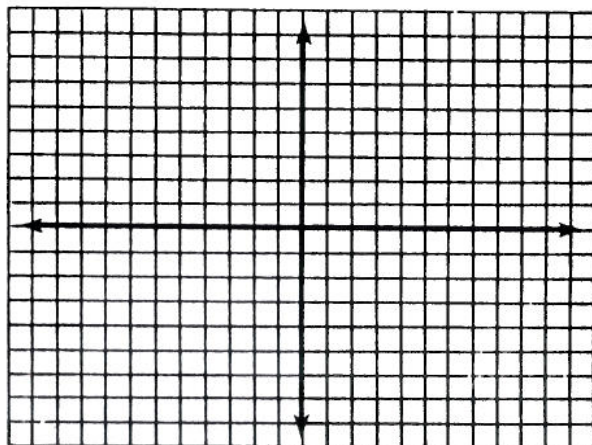


vertex (,)

line of symmetry $x = \underline{\hspace{1cm}}$

5. $y = -1(x + 2)(x - 4)$

x-intercepts: $x = \underline{\hspace{1cm}}$, $x = \underline{\hspace{1cm}}$ y-intercept: $y = \underline{\hspace{1cm}}$



vertex (,)

line of symmetry $x = \underline{\hspace{1cm}}$