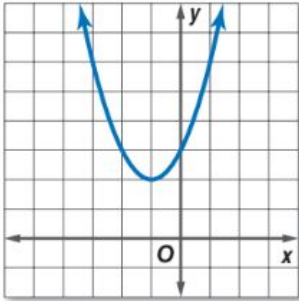


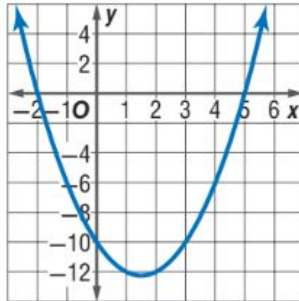
4.2 Solve Quadratic Equations by Graphing
4.3 Solving Quadratic Equations by Factoring
Honors Algebra 2

1. Use the related graph of the following to determine the solutions to the equation:

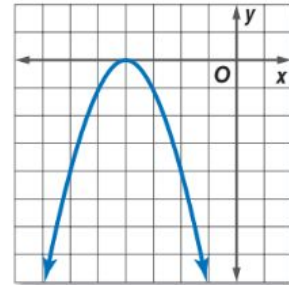
$$x^2 + 2x + 3 = 0$$



$$x^2 - 3x - 10 = 0$$



$$-x^2 - 8x - 16 = 0$$



2. Write a quadratic equation in standard form with the following roots:

a. 2, 4

b. $-\frac{1}{3}$, 6

c. $\frac{3}{2}$, $\frac{1}{4}$

3. Find the roots of the following equations.

a. $f(x) = 35x^2 - 15x$

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b. $f(x) = x^2 - 4x - 21$

c. $y = x^2 - 36$

d. $h(x) = 2x^2 + 7x - 30$

e. $z(x) = 12x^2 - 2x - 2$