

4-5 Building Quadratic Equations form Zeros

Objective: I can write a Quadratic equation in standard form.

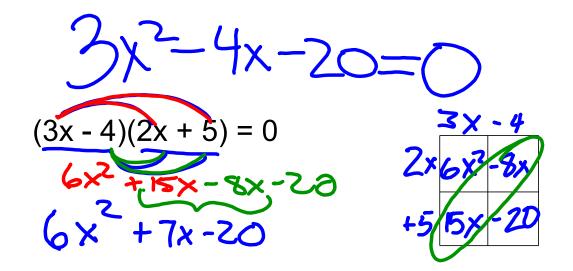
Objective: I can create a Quadratic equation from its

zeros.

Objective: I can identify the zeros of a Quadratic equation on

a graph.

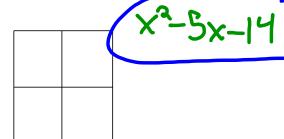
What does a Quadratic equation look like in standard form?

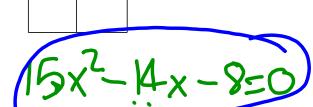


Write the equation in standard form

$$(x + 2)(x - 7) = 0$$

$$(3x - 4)(5x + 2) = 0$$





Using the roots of a quadratic write the equation in standard form.

$$x = 3$$

$$x = -1$$

You try:)

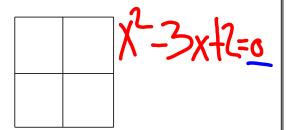
$$x = -5$$
 $\times +$ $= 0$

$$x = 4 \times -4 = 0$$

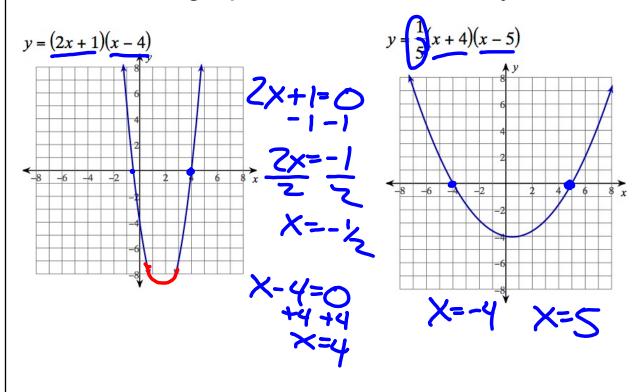
 $(x+5)(x-4) = 0$

$$x_5+x-50=0$$

$$x = 1x - 1 = 0$$

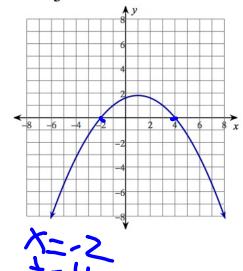


Given the graph we want to identify the zeros



you try:)

$$y = -\frac{1}{5}(x-4)(x+2)$$



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

$$x = -(x - 4)(x + 1)$$