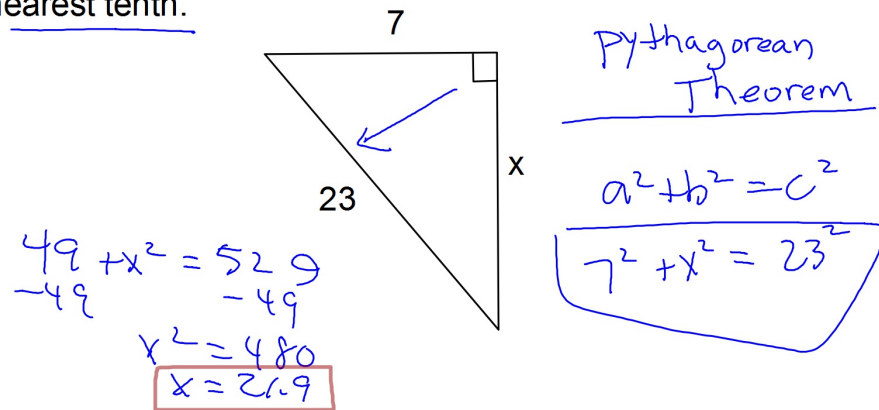
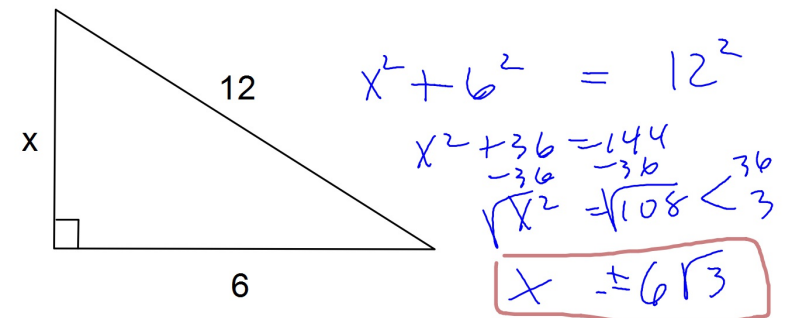


Find the length of the side labeled x to the nearest tenth.



Find the length of the side labeled x. Simplify if the answer is irrational.



Standard Form of a Quadratic Function:

$$y = ax^2 + bx + c$$

Standard Form of a Quadratic Equation:

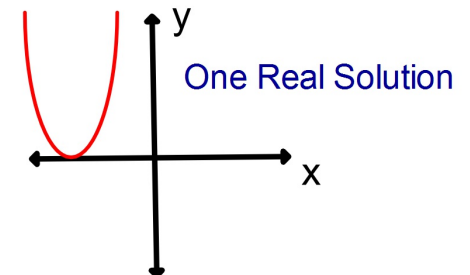
$$0 = ax^2 + bx + c$$

When you replace y with zero you are finding..... X-Intercepts

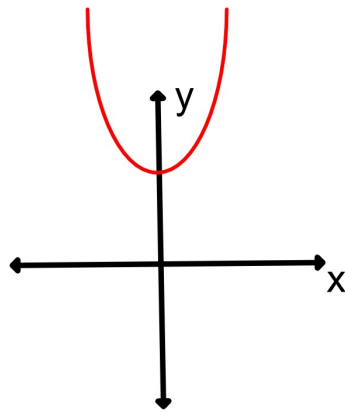
Solutions to quadratic equations using graphs:

Tell the number of solutions to each quadratic equation by using it's graph.

1. $0 = x^2 + 4x + 4$

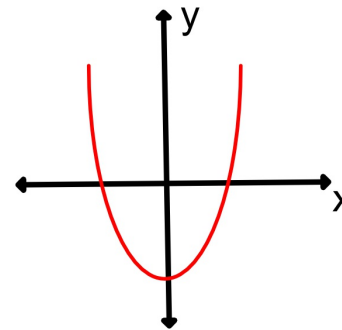


2. $0 = 2x^2 + 5$



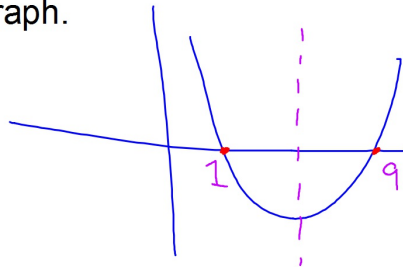
No Real Solution

3. $0 = x^2 - 6$



Two real solutions

Solutions to Quadratic Equations are the same as
x-intercepts of the graph.



Can you solve this equation with square roots?

$$4x^2 + 9x - 1 = 13$$

No, if there is a b-term (bx) then you
can't solve the equation using square roots.