



Grade 10

SOLVING QUADRATIC EQUATIONS

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Play the Quadratic Equations Trivia <http://www.quia.com/cb/24731.html> first.
Also, play The Wrecks Factor <http://www.mangahigh.com/en-us/games/wrecksfactor?locale=en-us>.
You may also go to www.wiredmath.ca for the link.

1. Factor the following expressions into linear terms.

a. $x^2 + 4x + 3$

b. $2x^2 + 15x + 7$

c. $6x^2 + x - 15$

d. $x^2 - 9$

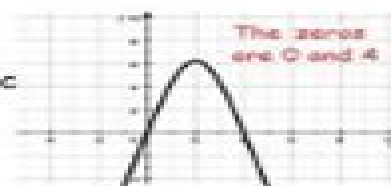
e. $x^2 + 5x$

f. $x^2 + \frac{4}{7}x - \frac{32}{49}$

g. $x^2 + \frac{27}{5}x + \frac{28}{5}$

h. $16x^2 - 16x + 4$

The zeros of a quadratic function are the values for x which make $y = 0$. It is where the graph of the equation intersects the x -axis. In terms of quadratic functions $y = ax^2 + bx + c$, $a \neq 0$ we are finding the x -intercepts or zeros of the function.



2. Find the roots of each equation.

a. $(x - 1)(x + 2) = 0$

b. $(3x - 5)(x - 1) = 0$

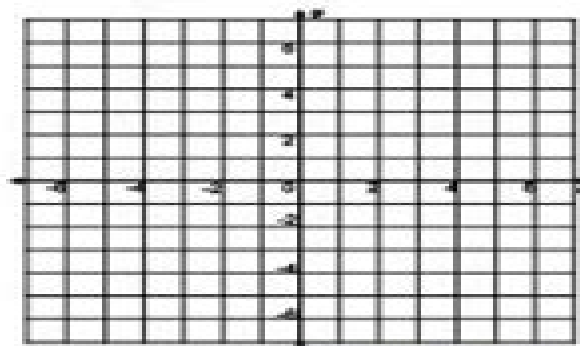
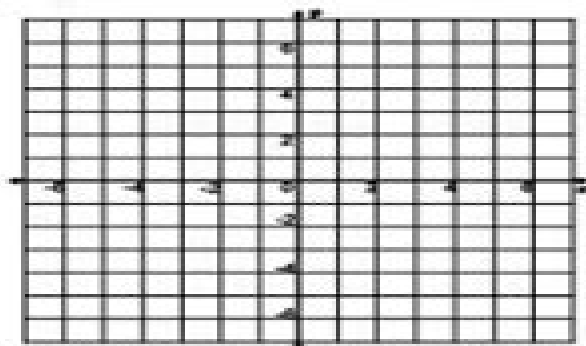
c. $x(5x - 4) = 0$

d. $(x - 3)^2 = 0$

3. Graph the following functions. Write the x -intercepts of the graphs, if any.

a. $y = x^2 - 2x - 3$

b. $y = -x^2 + 8x - 15$



Expectations: Solve quadratic equations using a variety of methods.

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Grade 10 Analytic Geometry Study Guide

Robert R. Redfield



Grade 10 Analytic Geometry Study Guide:

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