



## 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](http://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.  $x^2 - 9$

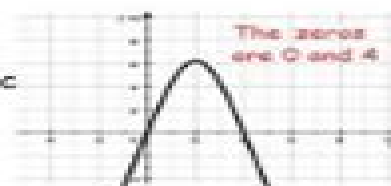
e.  $x^2 + 5x$

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

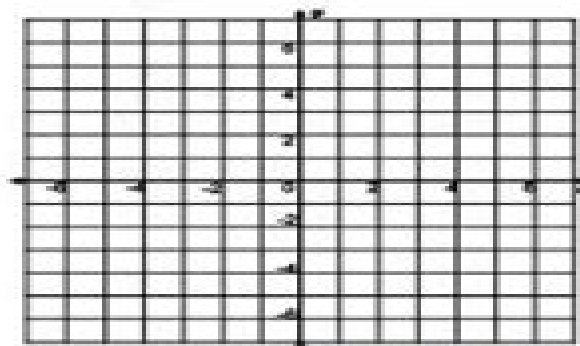
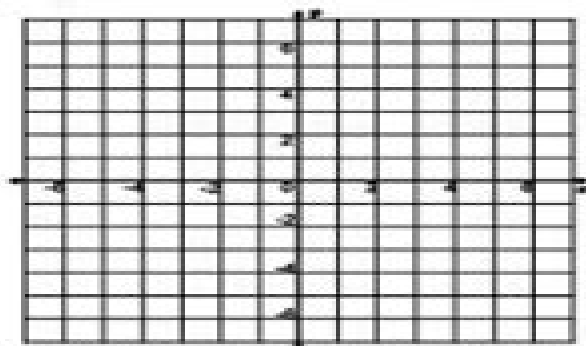
c.  $x(5x - 4) = 0$

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.

For more activities and resources from the University of Waterloo's Faculty of Mathematics, please visit [www.uwaterloo.ca/mathed](http://www.uwaterloo.ca/mathed).

# Grade 10 Analytic Geometry Study Guide

**ML Yell**



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