

Solve Quadratics and Quadratic formula

Name:	Class:	Date:
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Mark	/ 10	%
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1) Solve the following

[7]

a) $2a^2 + 3a + 1 = 0$

b) $2y^2 + 5y - 25 = 0$

c) $2y^2 - 11y + 5 = 0$

d) $2a^2 - a - 1 = 0$

e) $5b^2 + 7b - 6 = 0$

f) $3x^2 - 16x + 16 = 0$

g) $9c^2 - 16 = 0$

2) Solve the following, leaving your answers to 3 significant figures.

[3]

a) $3c^2 + 4c - 2 = 0$

b) $4a^2 - 10a - 8 = 0$

c) $11b^2 + 4b - 8 = 0$

Solutions for the assessment Solve Quadratics and Quadratic formula

1) a) $a = -\frac{1}{2}$ or $a = -1$

b) $y = \frac{5}{2}$ or $y = -5$

c) $y = \frac{1}{2}$ or $y = 5$

d) $a = -\frac{1}{2}$ or $a = 1$

e) $b = \frac{3}{5}$ or $b = -2$

f) $x = \frac{4}{3}$ or $x = 4$

g) $c = -\frac{4}{3}$ or $c = \frac{4}{3}$

2) a) $c = 0.387$ or $c = -1.72$

b) $a = 3.14$ or $a = -0.637$

c) $b = 0.690$ or $b = -1.05$