

Intro to Solving Quadratic Equations



Level 1 - Solve using the Square Root Principle and the Zero Product Property

Level 2 - Solve by factoring and then using the Zero Product Property

Level 3 - Solve by factoring polynomials of higher orders

Answers:

Level 1

a) $x = \pm 3$	b) $x = \pm 4$	c) $x = \pm 5$
d) $x = \pm 2$	e) $x = \pm 1$	f) $x = \pm 3$
g) $x = -1, 5$	h) $x = -1, -2$	i) $x = 3, 8$
j) $x = 2$	k) $x = \frac{1}{3}, \frac{2}{3}$	l) $x = 0, 5$
m) $x = \frac{3}{2}$	n) $x = -\frac{1}{4}, \frac{2}{5}$	o) $x = 0, -\frac{3}{2}$
p) $x = 0, \frac{4}{3}$	q) $x = 0, 1$	r) $x = 0, -2$

Level 2

a) $x = 0, -2$	b) $x = 0, 5$	c) $x = 0, -1$
d) $x = -5, -2$	e) $x = 4, 6$	f) $x = 3, 8$
g) $x = -2, \frac{1}{2}$	h) $x = -\frac{3}{2}, \frac{1}{3}$	i) $x = -1, \frac{5}{2}$
j) $x = 0, -3$	k) $x = -1, -3$	l) $x = 2$

Level 3

a) $x = 0, 3, -3$	b) $x = 2$	c) $x = 1, 2, -1, -2$
d) $x = 0, 4, -4$	e) $x = 6$	f) $x = 2, 3, -2, -3$