

## Algebra I

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1)	$\{5, -2\}$	6)	$\{-7, -1\}$
2)	$\{-\frac{1}{2}, 2\}$	7)	$\{3 \pm 2\sqrt{5}\}$ $\{7.47, -1.47\}$
3)	$\{2, \frac{1}{5}\}$	8)	$\{\frac{3 \pm \sqrt{13}}{2}\}$ $\{3.30, -0.30\}$
4)	$\{-1, 4\}$	9)	$\{-4 \pm \sqrt{11}\}$ $\{-0.68, -7.32\}$
5)	$\{6, -1\}$		

$$2) \quad 2s^2 - 3s - 2 = 0 \rightarrow \text{or } (2s+1)(s-2) = 0$$

$$a=2 \quad b=-3 \quad c=-2$$

$$\{-\frac{1}{2}, 2\}$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x = \frac{-(-3) \pm \sqrt{(-3)^2 - 4(2)(-2)}}{2(2)}$$

$$= \frac{3 \pm \sqrt{9+16}}{4} = \frac{3 \pm \sqrt{25}}{4}$$

$$= \frac{3 \pm 5}{4} = 2, -\frac{2}{4} \quad \{2, -\frac{1}{2}\}$$

$$8) k^2 - 3k - 1 = 0$$

$$a=1 \quad b=-3 \quad c=-1$$

$$k = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$k = \frac{-(-3) \pm \sqrt{(-3)^2 - 4(1)(-1)}}{2(1)}$$

$$k = \frac{3 \pm \sqrt{9+4}}{2} \quad \left\{ \frac{3 \pm \sqrt{13}}{2} \right\}$$

$$\{ 3.30, -0.30 \}$$