



$$1) a = -7$$

$$b = 14$$

$$c = 21$$

$$x = \frac{-14 \pm \sqrt{14^2 - 4 \cdot (-7) \cdot 21}}{2 \cdot (-7)}$$

$$x = \frac{-14 \pm \sqrt{784}}{-14}$$

$$x = \frac{-14 \pm 28}{-14}$$

-1

3

$$2) a = 2$$

$$b = -14$$

$$c = 24$$

$$x = \frac{+14 \pm \sqrt{-14^2 - (4)(2)(24)}}{2 \cdot 2}$$

$$x = \frac{+14 \pm \sqrt{4}}{4}$$

$$x = \frac{+14 \pm 2}{4}$$

3

4

$$3) a = -2$$

$$b = 0$$

$$c = 63$$

$$x = \frac{-0 \pm \sqrt{0 - 4 \cdot (-7) \cdot (-63)}}{2 \cdot (-7)}$$

$$x = \frac{-0 \pm \sqrt{1764}}{-14}$$

$$x = \frac{-0 \pm 42}{-14}$$

-3

3

4) $a = x$

$b = -7$

$c = -4$

$$x = \frac{7 \pm \sqrt{7^2 - 4 \cdot 0 \cdot (-4)}}{2 \cdot 0}$$

$$x = \frac{7 \pm \sqrt{65}}{2}$$

5) $a = x$

$b = -2$

$c = -2$

$$x = \frac{2 \pm \sqrt{-2^2 - 4 \cdot 0 \cdot (-2)}}{2 \cdot 0}$$

$$= 1 + \sqrt{3}, 1 - \sqrt{3}$$

$$6) a = 4x^2$$

$$b = 0$$

$$c = -24$$

$$x = \frac{0 \pm \sqrt{0^2 - 4 \cdot 4 \cdot (-24)}}{2 \cdot 4}$$

$$-6$$

$$x = \frac{0 \pm 19.5}{8} \quad \begin{matrix} -6 \\ -6 \end{matrix}$$

$$7) a = 2$$

$$b = -6$$

$$c = -2$$

$$x = \frac{6 \pm \sqrt{-6^2 - 4 \cdot 2 \cdot (-2)}}{2 \cdot 2}$$

$$x = \frac{6 \pm \sqrt{52}}{4} \quad \begin{matrix} 3.3 \\ -0.3 \end{matrix}$$

$$x = \frac{6 \pm 7.2}{4}$$

$$x = \frac{5 + \sqrt{23}}{2}, \frac{5 - \sqrt{23}}{2}$$

$$b) a = -14$$

$$b = 4$$

$$c = 14$$

$$x = \frac{1 \pm \sqrt{29}}{4}$$