

Using the Quadratic Formula to Solve Equations

Solve each equation with the quadratic formula.

1) $2x^2 - 9x - 51 = -6$ $2x^2 - 9x - 45 = 0$

$$\textcircled{1} \quad (-9)^2 - 4(2)(-45)$$

$$81 + 360$$

$$441$$

② 2 Real Solutions

$$\textcircled{3} \quad x = \frac{-(-9) \pm \sqrt{441}}{2(2)}$$

$$= \frac{9 \pm 21}{4}$$

$$x = \frac{9+21}{4} \quad x = \frac{9-21}{4}$$

$$= \frac{30}{4} \quad = -\frac{12}{4}$$

$$\boxed{x = 7\frac{1}{2}} \quad \boxed{x = -3}$$

3) $v^2 - 2v - 32 = -8$ $v^2 - 2v - 24 = 0$

$$\textcircled{1} \quad (-2)^2 - 4(1)(-24)$$

$$4 + 96$$

$$100$$

② 2 Real Solutions

$$\textcircled{3} \quad x = \frac{-(-2) \pm \sqrt{100}}{2(1)}$$

$$= \frac{2 \pm 10}{2}$$

$$x = \frac{2+10}{2} \quad x = \frac{2-10}{2}$$

$$= \frac{12}{2} \quad = -\frac{8}{2}$$

$$\boxed{x = 6} \quad \boxed{x = -4}$$

5) $7x^2 + x + 21 = 11$ $7x^2 + x + 10 = 0$

$$\textcircled{1} \quad 1^2 - 4(7)(10)$$

$$1 - 280$$

$$-279$$

② No Real Solutions

$$\textcircled{3} \quad \boxed{\text{No Real Solutions}}$$

2) $11x^2 - 6x - 3 = -10$ $11x^2 - 6x + 7 = 0$

$$\textcircled{1} \quad (-6)^2 - 4(11)(7)$$

$$36 - 308$$

$$-272$$

② No Real Solutions

$$\textcircled{3} \quad \boxed{\text{No Real Solutions}}$$

4) $4x^2 + 8x - 81 = -4$ $4x^2 + 8x - 77 = 0$

$$\textcircled{1} \quad 8^2 - 4(4)(-77)$$

$$64 + 1232$$

$$1296$$

② 2 Real Solutions

$$\textcircled{3} \quad x = \frac{-8 \pm \sqrt{1296}}{2(4)}$$

$$= \frac{-8 \pm 36}{8}$$

$$x = \frac{-8+36}{8} \quad x = \frac{-8-36}{8}$$

$$= \frac{28}{8} \quad = -\frac{44}{8}$$

$$\boxed{x = 3\frac{1}{2}}$$

$$\boxed{x = -5\frac{1}{2}}$$

6) $2b^2 + 11b - 114 = 7$ $2b^2 + 11b - 121 = 0$

$$\textcircled{1} \quad 11^2 - 4(2)(-121)$$

$$121 + 968$$

$$1089$$

② 2 Real Solutions

$$\textcircled{3} \quad x = \frac{-11 \pm \sqrt{1089}}{2(2)}$$

$$= \frac{-11 \pm 33}{4}$$

$$= \frac{-11+33}{4}$$

$$x = \frac{-11+33}{4} \quad x = \frac{-11-33}{4}$$

$$= \frac{22}{4} \quad = -\frac{44}{4}$$

$$\boxed{x = 5\frac{1}{2}}$$

$$\boxed{x = -11}$$

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Examples in algebra, by W.F. McMichael and R. Prowde-Smith. [With] Answers William Fisher McMichael,1879

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