

1. Complete the square.

$$x^2 + 16x + \underline{\hspace{1cm}}$$

2. Complete the square.

$$x^2 - 2x + \underline{\hspace{1cm}}$$

3. Complete the square.

$$x^2 + 10x + \underline{\hspace{1cm}}$$

4. Solve the quadratic equation by completing the square.

$$x^2 + 8x + 25 = 0$$

5. Solve the quadratic equation by completing the square.

$$x^2 - 4x + 20 = 0$$

6. Solve the quadratic equation by completing the square.

$$-3x^2 + 30x = 9$$

7. Solve the quadratic equation by completing the square.

$$x^2 + 8x + 1 = 0$$

[A] $\sqrt{15} \pm 4$

[B] $15 \pm \sqrt{15}$

[C] ± 4

[D] $-4 \pm \sqrt{15}$

8. Solve the quadratic equation by completing the square.

$$-3x^2 - 24x = -9$$

[A] $-4 \pm \sqrt{19}$

[B] $4 \pm \sqrt{13}$

[C] $4 \pm \sqrt{19}$

[D] $-4 \pm \sqrt{13}$

9. Solve the quadratic equation by completing the square.

$$x^2 - 4x - 2 = 0$$

[A] $2 \pm \sqrt{6}$ [B] ± 2 [C] $6 \pm \sqrt{6}$ [D] $\sqrt{6} \pm 2$

10. Solve the quadratic equation by completing the square.

$$x^2 - 8x - 2 = 0$$

[A] $3\sqrt{2} \pm 4$ [B] $4 \pm 3\sqrt{2}$ [C] $2 \pm \sqrt{2}$ [D] ± 4

11. Solve the quadratic equation by completing the square.

$$x^2 + 2x - 1 = 0$$

[A] $\sqrt{2} \pm 1$ [B] $2 \pm \sqrt{2}$ [C] $-1 \pm \sqrt{2}$ [D] ± 1

[1] _____

[2] _____

[3] _____

[4] _____

[5] _____

[6] _____

[7] _____

[8] _____

[9] _____

[10] _____

[11] _____

Reference: [5.7.1.75]

[1] 64

Reference: [5.7.1.75]

[2] 1

Reference: [5.7.1.75]

[3] 25

Reference: [5.7.1.78]

[4] $-4 \pm 3i$

Reference: [5.7.1.78]

[5] $2 \pm 4i$

Reference: [5.7.1.79]

[6] $5 \pm \sqrt{22}$

Reference: [5.7.1.77]

[7] [D]

Reference: [5.7.1.80]

[8] [A]

Reference: [5.7.1.77]

[9] [A]

Reference: [5.7.1.77]

[10] [B]

Reference: [5.7.1.77]

[11] [C]