Algebra I Practice A.REI.B.4: Solving Quadratics 1

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1. Solve by completing the square: $x^2 + 2x - 3 = 0$

2. Solve by completing the square: $x^2 - 2x - 3 = 0$

3. Solve by completing the square:
$x^2 - 2x - 24 = 0$

4. Solve by completing the square:
$x^2 + 6x - 16 = 0$

5. Solve by completing the square:
$x^2 + 4x - 32 = 0$

6. Solve by completing the square:
$x^2 + 2x - 35 = 0$

7. Solve by completing the square:
$x^2 + 4x - 12 = 0$

8. Solve by completing the square: $x^2 - 4x - 5 = 0$

9. Solve by completing the square: $x^2 + 2x - 8 = 0$

10. Solve by completing the square:
$x^2 + 2x - 15 = 0$

11. Solve by completing the square.
$-10x = 5x^2 - 1$

12. Solve by completing the square.
$7x = 3x^2 - 1$

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13. Solve by completing the square.
$8x = 3x^2 - 2$

14. Solve by completing the square.
$-9x = 4x^2 - 1$

15. Solve by completing the square.
$-6x = 3x^2 - 2$

16. Solve by completing the square.
$7x = 3x^2 - 1$

17. Solve by completing the square.
$-10x = 4x^2 - 2$

18. Solve by completing the square.
$-8x = 3x^2 - 2$

19. Solve by completing the square.
$-9x = 4x^2 - 1$

20. Solve by completing the square.
$-10x = 5x^2 - 1$

[1] $-3, 1$

[2] $-1, 3$

[3] $-4, 6$

[4] $-8, 2$

[5] $-8, 4$

[6] $-7, 5$

[7] $-6, 2$

[8] $-1, 5$

[9] $-4, 2$

[10] $-5, 3$

[11] $\frac{-5+\sqrt{30}}{5}$ and $\frac{-5-\sqrt{30}}{5}$

[12] $\frac{7+\sqrt{61}}{6}$ and $\frac{7-\sqrt{61}}{6}$

[13] $\frac{4+\sqrt{22}}{3}$ and $\frac{4-\sqrt{22}}{3}$

[14] $\frac{-9+\sqrt{97}}{8}$ and $\frac{-9-\sqrt{97}}{8}$

[15] $\frac{-3+\sqrt{15}}{3}$ and $\frac{-3-\sqrt{15}}{3}$

[16] $\frac{7+\sqrt{61}}{6}$ and $\frac{7-\sqrt{61}}{6}$

[17] $\frac{-5+\sqrt{33}}{4}$ and $\frac{-5-\sqrt{33}}{4}$

[18] $\frac{-4+\sqrt{22}}{3}$ and $\frac{-4-\sqrt{22}}{3}$

[19] $\frac{-9+\sqrt{97}}{8}$ and $\frac{-9-\sqrt{97}}{8}$

[20] $\frac{-5+\sqrt{30}}{5}$ and $\frac{-5-\sqrt{30}}{5}$