Algebra I
Lessons 10.3 – 10.5

Name_____

Solve by using the QUADRATIC FORMULA.

1. $2x^2 - 1x - 15 = 0$

2. $x^2 + 11x = -10$

Solve by COMPLETING THE SQUARE.

3. $x^2 + 14x = 15$

4. $x^2 + 6x - 5 = 2$

Solve by the SQUARE ROOT METHOD.

5. $x^2 + 8 = 28$

6. $3x^2 + 6 = 33$

Multiple choice.

7. Use the Quadratic Formula to solve $2x^2 = -10x - 7$.

A. $\frac{-10 \pm \sqrt{11}}{2}$

B. $\frac{-5 \pm \sqrt{39}}{2}$

C. $\frac{-5 \pm \sqrt{11}}{2}$

D. $\frac{-5 \pm \sqrt{11}}{4}$

E. None of the above

8. Solve $x^2 - 16x + 44 = 0$ by Completing the Square.

A. $8 \pm 2\sqrt{5}$

B. $8 \pm 2\sqrt{11}$

C. $-16 \pm 2\sqrt{11}$

D. $-8 \pm 2\sqrt{5}$

E. None of the above

9. Solve $(x + 4)^2 = 25$ by the Square Root Method.

A. $x = \pm 29$

B. $x = \pm 1$

C. $x = -9,\ x = 1$

D. $x = 9,\ x = -1$

E. None of the above

10. Use the Quadratic Formula to solve $3x^2 - 10 = -4x$.

A. $\frac{5 \pm \sqrt{17}}{2}$

B. $\frac{5 \pm \sqrt{33}}{4}$

C. $\frac{-5 \pm \sqrt{33}}{2}$

D. $\frac{-2 \pm \sqrt{34}}{3}$

E. None of the above