EMA **Name**_____

Quadratic Formula **Date**_____**Period**_____

$$\boldsymbol{x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}}$$

Solve the quadratic equation by using the quadratic formula.

1. $3x^2 + 2x - 8 = 0$

2. $2x^2 + 3x - 20 = 0$

3. $4x^2 + 8x + 3 = 0$

4. $5x^2 - 80 = 0$

5. $2x^2 + 2x - 11 = 5x + 4$

6. $x^2 - 31 - 2x = -6 - 3x^2 - 2x$

Solve the quadratic equation by using the quadratic formula. If necessary, round to the nearest hundredths place.

7. $2x^2 - 7x - 13 = -10$

8. $9x^2 = 4 + 7x$

9. $8x^2 + 4x - 16 = -x^2$

10. $0.25x^2 - 0.25x - 10.5 = 0$

11. $x^2 - 6x + 25 = 0$

12. $2x^2 + 4x + 6 = 0$