

Review #3: Solving Equations

Score: _____ /11

Group Members: _____

Hint from teacher

Ask another group

Look in Notes

Solve by factoring.

1. $3x^2 + 11x + 6 = 0$

2. $2x^3 - 5x^2 + 3x = 0$

3. $9x^3 - 4x = 0$

4. **Solve using the square roots method.**

$$\frac{1}{3}(x+2)^2 = \frac{3}{4}$$

5. **Solve by completing the square.**

$$x^2 - 4x + 8 = 0$$

SOLVE the equation. Discard any extraneous roots, if necessary.

6. Solve using the quadratic formula.
 $4x^2 - 2x = 3$

7. $x^{2/3} = 16$

8. $\sqrt[3]{x} + 4 = 2$

9. $x = \sqrt{12 - x}$

10. $\frac{3}{x^2 - 9} = \frac{6}{x + 3}$

11. $\frac{3}{x^2 - 4} = \frac{2}{x + 2} + \frac{x}{x - 2}$