

HOMework: SOLVING

NAME: _____ DAY 3 DUE: _____

Solve the equations

1. $6x^2 - 7x - 3 = 0$

2. $2x^3 = 32x$

3. $\frac{x^2}{9} - 1 = 5$

4. $-4(x+2)^2 = -100$

5. $x^2 - 4x - 8 = 0$

6. $x^2 - 10x = 1$

SOLVE the equation. CHECK for extraneous roots.

7. $-4\sqrt{3x} - 6 = -2$

8. $\sqrt{x+3} = \sqrt{2x-7}$

9. $\sqrt{5x+1} = x-4$

10. $\sqrt[3]{2t-1} = 2$

11. $\sqrt{15-2x} = x$

12. $x^2 + \sqrt{3}x - 3 = 0$

Solve. Remember to check for extraneous, if necessary!

13. $\frac{-2}{x+3} = \frac{1}{x+1}$

14. $\frac{t+11}{t-11} = \frac{11t+121}{t^2-6t-55}$

15. $\frac{6}{x-3} = \frac{8x^2}{x^2-9} - \frac{4x}{x+3}$