

Math 107
Spring 2011
Worksheet 9

Solving equations

Name _____
Date _____
Section _____

Solve the equations.

1. $x - (2x + 6) = 3x + 5$

2. $-x^2 + 5x - 6 = 0$

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

4. $2m^3 + m^2 - 10m - 5 = 0$

5. $(x - 4)^2 = 25$

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

State the LCD and restrictions, and then SOLVE THE EQUATIONS.

7. $\frac{5}{x+1} - \frac{2}{x} = \frac{11}{3x+3}$

LCD _____

Restrictions _____

8. $\frac{x+5}{x+2} = \frac{x+3}{x+4}$

LCD _____

Restrictions _____

9. $\frac{x}{x-2} = \frac{8}{x^2-4} - \frac{1}{x+2}$

LCD _____

Restrictions _____

10. $\frac{5}{y^2+9y+14} - \frac{1}{y+2} = \frac{3}{y+7}$

LCD _____

Restrictions _____