

**LAGUARDIA COMMUNITY COLLEGE**  
**Department of Mathematics, Engineering, and Computer**  
**Sciences MAT 096 ELEMENTARY ALGEBRA / PILOT**  
**Lab 2**

1. Find the least common denominator (LCD) of  $\frac{9}{10}$  and  $\frac{7}{15}$
  
2. Simplify  $\frac{3}{10} + \frac{5}{6}$  and  $\frac{2}{9} - \frac{11}{12}$
  
3. Solve the equation  $7w + 23 = 4w + 8w - 22$
  
4. Solve the equation  $9(x + 3) = -5x - 29$
  
5. Solve the equation  $2(x + 6) - 4x = 24$
  
6. Solve the equation  $-\frac{5}{2}y + \frac{7}{4} = -\frac{7}{3}y - 6$
  
7. Solve the equation  $\frac{1}{3}(x + 7) - \frac{1}{2}(x + 1) = 4$

8. Solve the equation  $\frac{x-2}{5} - \frac{x-4}{2} = 2$

9. Solve the equation  $\frac{x+1}{4} + \frac{x+2}{6} = 1$