

Name: \_\_\_\_\_ Date: \_\_\_\_\_

1. Joe thinks that -4 is a solution to the equation  $5x - 9 = -2x - 21$ . Is he correct? Use substitution to check the solution.
  
  
  
  
  
  
  
  
  
  
2. Is -8 a solution to the equation  $x^2 - 8x = 120 - x$ ? Check the solution using substitution.

Solve each of the following equations, then check your solution. Remember to put a ? above the = sign in the "check", until you know it is truly the correct solution.

3. Solve:  $-2x + 8 = -10$                       Check:

4. Solve :  $4 + 3x = -8$                       Check:

5. Solve:  $\frac{x}{2} - 9 = -1$                       Check:

6. Solve:  $-9 = \frac{3}{5}x$

Check:

7. Solve:  $-16 = 14 + 3x$

Check:

8. Solve:  $3x = 2x - 9$

Check:

9. Solve:  $\frac{4}{7}x + 1 = -11$

Check:

10. Solve:  $\frac{2}{9}x - 18 = \frac{11}{9}x$

Check: