

**Review Practice #3**  
**No Calculators**

**Pre Calculus**

Name \_\_\_\_\_

Date \_\_\_\_\_ Period \_\_\_\_\_

1. If  $a = -4$ , then  $|a + 2| - |3 - 4a| =$

2.  $\left(\frac{18}{15x^3}\right)\left(\frac{5x^5}{36y^7}\right)(3y^2) =$

If  $f(x) = 5x - 2$  and  $g(x) = x^2 + 2$ , then

3.  $f(g(4)) =$

4.  $(g \circ f)(x) =$

5.  $g^{-1}(x) =$

Solve the following systems.

6.  $x = 3y - 1$   
 $2x + y = 12$

7.  $x + 2y - z = -12$   
 $3x - y + z = 11$   
 $x - 3y + 2z = 22$

8. If  $\sqrt{3x - 5} - 2 = 0$ , then  $x =$

9. Find the roots of  $3x^2 + 5x - 2 = 0$ .

10. Solve  $18 - 2x > 8$  for  $x$ .