

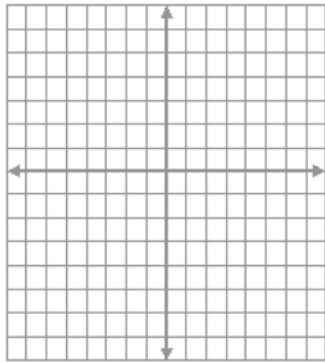
**Review Practice #4**  
**No Calculators**

**Math Analysis**

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

Graph the following. Then state the domain and range for each function.

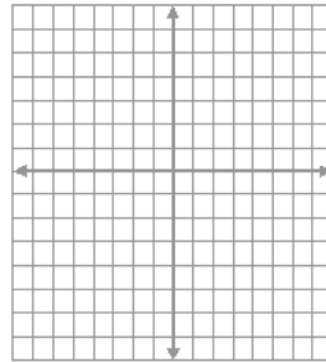
1.  $y = |x - 4| + 2$



Domain: \_\_\_\_\_

Range: \_\_\_\_\_

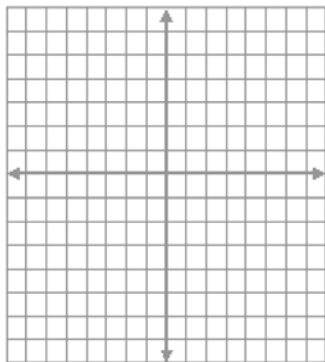
2.  $y = (x - 3)^2 + 1$



Domain: \_\_\_\_\_

Range: \_\_\_\_\_

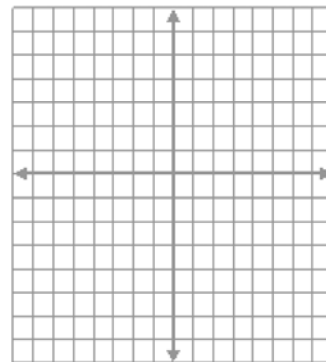
3.  $y = -\frac{5}{3}x + 4$



Domain: \_\_\_\_\_

Range: \_\_\_\_\_

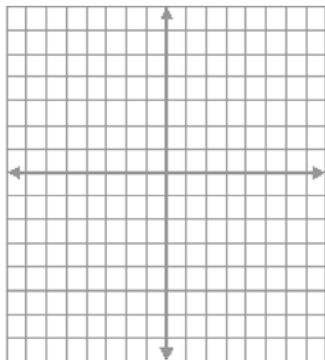
4.  $y = 2\sqrt{x - 4}$



Domain: \_\_\_\_\_

Range: \_\_\_\_\_

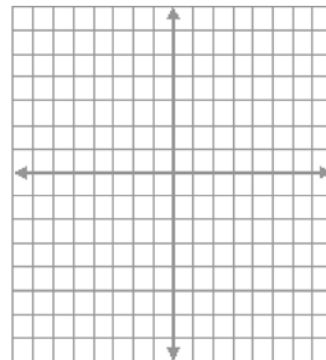
5.  $y = 2^x$



Domain: \_\_\_\_\_

Range: \_\_\_\_\_

6.  $y = \log_2 x$



Domain: \_\_\_\_\_

Range: \_\_\_\_\_

7. If  $f(x) = \frac{8}{x+2}$ , for what value of  $x$ , does  $f(x) = 6$ ?

8. Solve  $x^2 \leq 36$  for  $x$ .

9. Simplify:  $\frac{\frac{18+3x}{x+6}}{\frac{x^2+6x}{3x+1}}$

10. If  $5 = 7^x$ , then  $x =$