

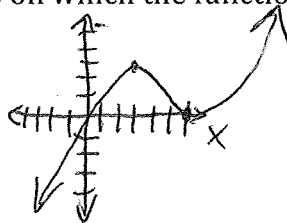
Pre-calculus Chapter 1 review game

1.) Find the slope intercept form of the equation of the line through the point (2,1) and parallel to the line $4x - 2y = 3$.

2.) Find the domain for the function. $f(x) = \sqrt{2x-3}$

3.) Find the domain and range of the function. $f(x) = 5|x+4|$

4.) Determine the intervals on which the function is increasing, decreasing, or constant.



5.) Describe the transformation that occurs in the function. $g(x) = (x-6)^2 + 9$

6.) Find an equation and graph for the function that is described by the given characteristics. The shape of $f(x) = x^3$, with a vertical stretch of 4.

7.) If $f(x) = 4-3x$ and $g(x) = x^2 - 2$, find (a) $(f \circ g)(x)$ and (b) $(g \circ f)(x)$

8.) Find the inverse of the function. $f(x) = (x-4)^3 + 6$

9.) Use a graphing utility to approximate (to two decimal places) any relative minima or maxima values of the function.

$$f(x) = x^2 - 2x + 6$$