GSE Algebra 1 **HW #6.4**  Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Calculate the slope of the line between the given points. Use your answer to indicate which line is the steepest.

(**Find the larger number** **and tell which one is steeper**)

1. A (-3, 7) B (-5, 17) 2) H (12, -37) K (4, -3)

Indicate which function on the graph has a higher rate of change (which one is increasing at a faster rate).

1.  4) 
2. For the following graph, which function has a higher rate of change over the interval from x = 0 to x = 2.5.



What happens after the two graphs intersect?

Which function takes over that has a higher rate of change?

1. List out all the characteristics of the function and graph given below.

$y=(x+1)(x-5)$

Vertex: Dom: Range:

Direction: Max/Min y-int:

x-ints: Increase: Decrease:

axis of symm: End Beh: $x\rightarrow -\infty y\rightarrow $

 $x\rightarrow \infty y\rightarrow $



Write the equation above in **standard** **form**.

Solve the equation above for the x-intercepts.