Week 2 Homework Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

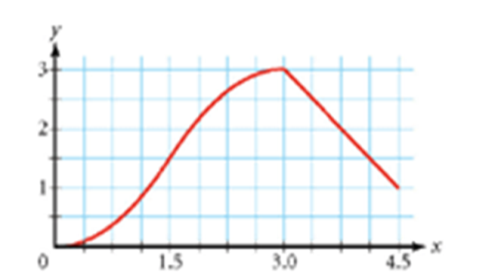
ELG F.1: Identify functions from graphs or tables and domain and ranges and describe what functions in graphs are doing.

1. Describe what is happening in this graph. Also give the domain and range of the graph and where it is increasing and decreasing.

Description and increasing/decreasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

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



1. Draw a graph that has a dependent variable that is increasing as the independent variable is also increasing. Include scales so you can also state your domain and range.

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

Range \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Draw a graph that decreases at a steady rate, then increases quickly, then decreases again slowly. State the intervals the graph is decreasing and increasing.

Graph: Decreasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Increasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Using the following equations, find the given values

F(x) = -4x + 5 G(x) = x² - 10 H(x) =

* 1. F(-10) g. F(x) = 25
  2. G(12) h. G(x) = 71
  3. H(11) i. H(x) = -20

* 1. 4\*H(6) j. H(x) = 13
  2. F(8) + 5 k. F(x) = -35
  3. G(-3) l. G(x) = -11

1. Use the following graph to find the given values .
   1. F(4) b. F(x) = 6 c. F(5) – 2