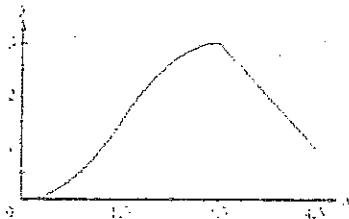


1. Describe what is happening in this graph. Also give the domain and range of the graph and where it is increasing and decreasing.



Description and increasing/decreasing

Domain: _____

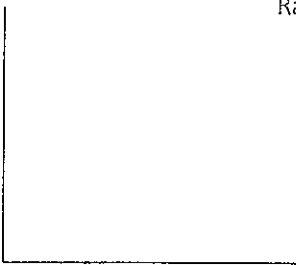
Range: _____

2. 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 _____

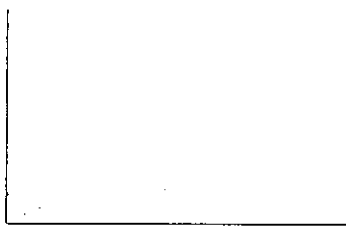


3. Draw a graph that decreases at a steady rate, then increases quickly, then decreases again slowly. State the intervals the graph is decreasing and increasing.

Graph:

Decreasing _____

Increasing _____



4. Using the following equations, find the given values

$$F(x) = -4x + 5$$

$$G(x) = x^2 - 10$$

$$H(x) = \frac{x+9}{2}$$

a. $F(-10)$

g. $F(x) = 25$

b. $G(12)$

h. $G(x) = 71$

c. $H(11)$

i. $H(x) = -20$

d. $4 \cdot H(6)$

j. $H(x) = 13$

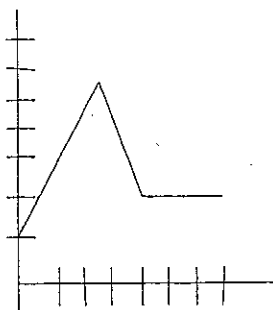
e. $F(8) + 5$

k. $F(x) = -35$

f. $G(-3)$

l. $G(x) = -11$

5. Use the following graph to find the given values .



a. $f(4)$

b. $f(x) = 6$

c. $f(5) - 2$

d. $f(x) = 1$, find x