

State the domain and range of the relation. Then determine if the relation is a function.

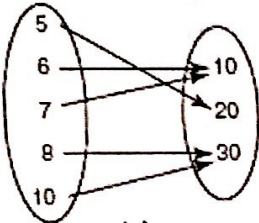
1.) $\{(1, 2), (4, 3), (5, 9), (-2, 0)\}$

Function

Domain: $\{1, 4, 5, -2\}$

Range: $\{2, 3, 9, 0\}$

3.)



Function

Domain: $\{5, 6, 7, 8, 10\}$

Range: $\{10, 20, 30\}$

2.)

Not a function

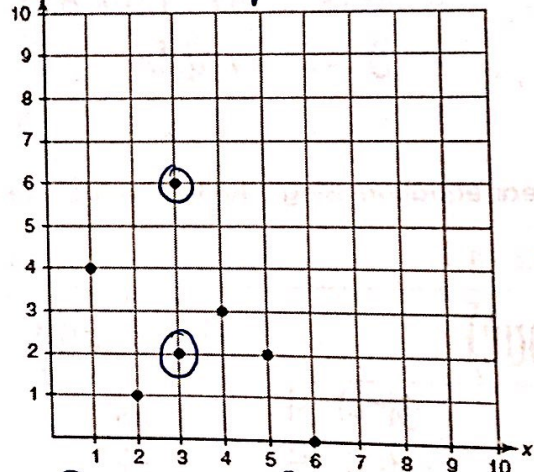
X	Y
-8	1
6	2
5	3
-8	4
7	5
3	3

Domain: $\{3, 5, 6, 7, 8\}$

Range: $\{1, 2, 3, 4, 5\}$

4.)

Not a function



Domain: $\{1, 2, 3, 4, 5, 6\}$

Range: $\{0, 1, 2, 3, 4, 6\}$

Evaluating the function and show proper function notation:

5.) For $f(x) = 7x + 2$, find $f(0)$.

$f(0) = 7(0) + 2$

$f(0) = 2$

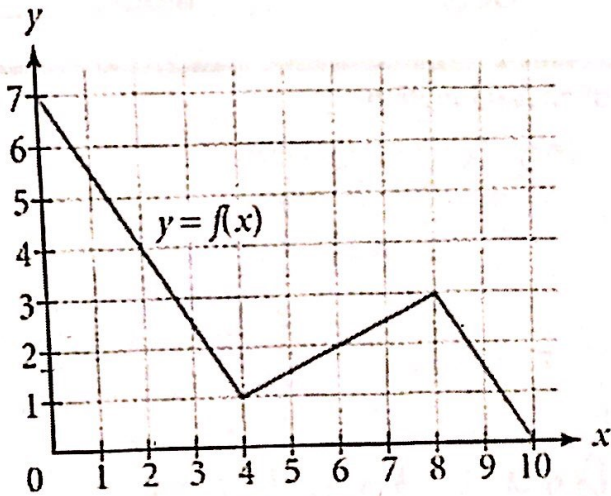
6.) For $k(p) = -\frac{1}{5}p + 7$, find $k(10)$.

$k(10) = -\frac{1}{5}(10) + 7$

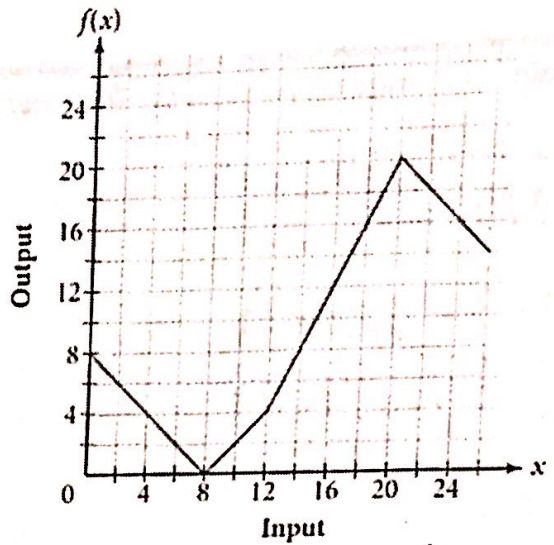
$k(10) = 5$

7.) Evaluate the function for the given values:

8.) Evaluate the function for the given values:



- a. $f(6) = 2$
- b. $f(2) = 4$
- c. $f(0) = 7$
- d. $f(3) = 2.5$ or 7, or 8.5
- e. $f(10) = 0$
- f. $f(8) = 3$ or 2.5

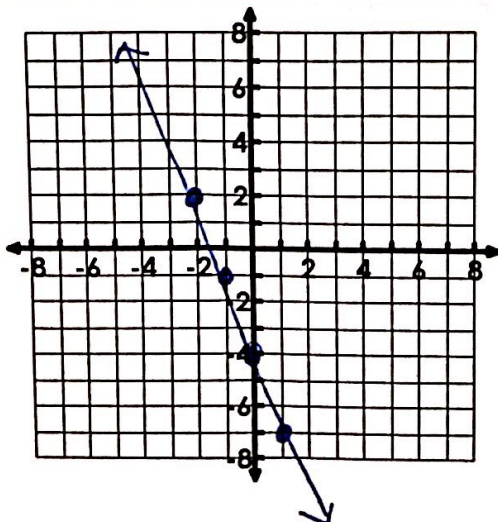


- a. $f(8) = 0$
- b. $f(12) = 4$
- c. $f(18) = 16$
- d. $f(22) = 18$
- e. $f(20) = 20$
- f. $f(16) = 12$

Graph the linear equation using a table of value. Use -2, -1, 0, 1, 2 as your input values.

9.) $g(x) = -3x - 4$

x (Input)		y (Output)
-2	$-3(-2) - 4$	2
-1	$-3(-1) - 4$	-1
0	$-3(0) - 4$	-4
1	$-3(1) - 4$	-7
2	$-3(2) - 4$	-10



10.) $h(x) = \frac{1}{2}x - 2$

x (Input)		y (Output)
-2	$\frac{1}{2}(-2) - 2$	-3
-1	$\frac{1}{2}(-1) - 2$	-2.5
0	$\frac{1}{2}(0) - 2$	-2
1	$\frac{1}{2}(1) - 2$	-1.5
2	$\frac{1}{2}(2) - 2$	-1

