

4. Complete the following statements.

a. $F(3) = 11$

b. $K(3) = 1$

c. $H(3) = 4$

d. $G(3) = 15$

e. $F(x)$ is maximized when $x = 4$.

f. $F(x)$ is minimized when $x = -2$.

g. $G(x)$ is maximized when $x = 4$.

h. $G(x)$ is minimized when $x = -1$.

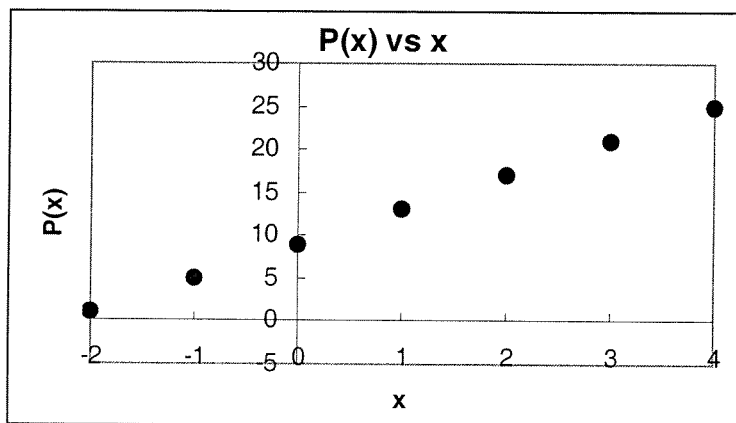
i. $K(x)$ is maximized when $x = 1$.

j. $K(x)$ is minimized when $x = -2$ or 4 .

5. Find a rule for the function P whose table and graph are shown below.

x	$P(x)$
-2	1
-1	5
0	9
1	13
2	17
3	21
4	25

change in x (next to x column)
change in P(x) (next to P(x) column)
2 (next to x column, indicating a change of 2 in x)
8 (next to P(x) column, indicating a change of 8 in P(x))



$Slope = \frac{8}{2} = 4$

$P(x) = 4x + \boxed{?}$

$17 = P(2) = 4(2) + \boxed{?}$

$17 = 8 + \boxed{?}$

$9 = \boxed{?}$

So, $P(x) = 4x + 9$