

45 (a) Scatterplot the data $(1, 3)$, $(2, 5)$, $(3, 7)$, and $(4, 9)$ in $[0, 5, 1]$ by $[0, 10, 1]$.

(b) If we let the first data point $(1, 3)$ equal (h, k) , then $f(x) = m(x - 1) + 3$. Since the data is increasing, let $m = 1$ and graph f together with the data. By adjusting m , it can be determined that $m = 2$. *Answers may vary for h and k . See Figure 45a.*

(c) Table $f(x) = 2(x - 1) + 3$ starting at $x = 1$, incrementing by 1. See Figure 45b. The table matches the data.

$[0, 5, 1]$ by $[0, 10, 1]$

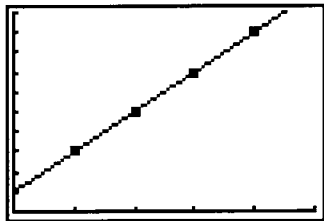


Figure 45a

X	Y1	
1	3	
2	5	
3	7	
4	9	
5	11	
6	13	
7	15	

$Y1 = 2(X - 1) + 3$

Figure 45b