

3. Is each relation a function?

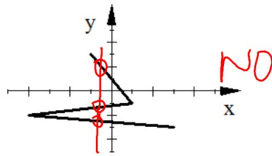
a) $(\underline{-6}, 4), (\underline{-2}, 6), (\underline{1}, 4), (\underline{5}, -1), (\underline{2}, 5)$ Yes

b) The table below

X	Y
8	6
<u>-3</u>	-9
2	-7
<u>-3</u>	4

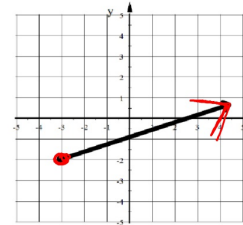
NO

c) The graph below



4. State the domain and range of each graph.

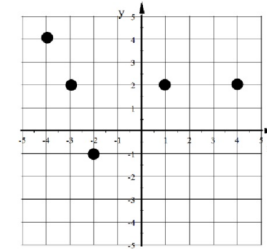
a)



Domain: $X \geq -3$

Range: $y \geq -2$

b)



Domain: $-4, -3, -2, 1, 4$

Range: $-1, 2, 4$

5. Use these two functions: $h(m) = 3m^2 - 10$ $w(c) = 4c - 1$

a) Find $h(-4)$
 $= 38$

$$\begin{aligned} 3(-4)^2 - 10 \\ 3(16) - 10 \\ 48 - 10 \end{aligned}$$

b) Find c if $w(c) = 25$

$$\begin{aligned} 25 &= 4c - 1 \\ +1 & \quad +1 \\ \hline 26 &= 4c \\ \frac{26}{4} &= \frac{4c}{4} \\ c &= \frac{13}{2} \text{ or } 6.5 \end{aligned}$$

c)

