Section 3.1: Relations and functions

#1-4: Find the following:

a) Create the points implied by the relation.

b) Find the domain and range of the relation listed below.

c) Determine whether y is a function of x.



#5-8: Find the following:

a) Find the domain and range of the relation listed below.

b) Determine whether the if y is a function of x.



9) Find the following: $f = \{(3, -2), (5, 6), (7, -2), (5, 6), (7, -2), (7$,3), (1,-2),(4,1), (6,7)}
a) The domain of f $\sum 1, 3, 4$	5,6,73
b) The range of the f $3 - 2 1 3$	6,73
c) $f(3)$	
Point(3,2) $f'(3) = -2$	
d) $f(1)$	
$PO(nT(1_{1-2})) + (1) = -C$	
e) all values of x such that $f(x) = -2$	$\chi = 1, \gamma$
POINTS (3,-2) É (1,-2)	
f) all values of x such that $f(x) = 6$	$\gamma = ($
Point(5,6)	

11) Find the following: $g = \{(9,2) (1,9) (4,1) (2,4) (6,1)\}$ 81,2,4,6,93 a) The domain of g 5 1,2,4,93 b) The range of the g c) g(9) 9(9)=2 (5,P) TNU9 d) g(4)9(4) = 1 POINT (411) e) all values of x such that g(x) = 9POINT (1,9) f) all values of x such that g(x) = 1X=416 CONNH 2 (4,1) (6,1)







19) Given the graph of h(x), find the у following: h(-1)= -5 h(2)=4 a) h(-1)(2,4) Point (0,0) (4,0) x (-\-5) b) h(2) POINT (-1,/5) (5)-5) c) all values of x such that h(x) = -5 $P_{O} \cap T S$ $\chi = 1,5$ $(-1,-5) \stackrel{!}{\sim} (5,-5)$ $\chi = 1,5$ d) all values of x such that h(x) = 0 hTS $(0,0) \xi(4,6)$