## Substituting Values in Algebraic Expressions

Evaluate each expression for the specified values of x. Organize the information in a chart

χ	u	
0	20	3(0) +2 = 0+2 = 2
1/3	3	3(3)+2 = 1+2=3
2	8	3(2)+2 = 6+2=8
4	14	3(4)+2 = 12+2 = 14

_χ	1 4	
14	9	4(4)+1=1+1=2
1	5	4(1)+1=4+1=5
2	9	4(2)+1=8+1=9
4	\$ 5 9 17	4(4)+1=16+1=17

3.) 
$$\frac{3x-2}{x}$$
 for  $x = 1, 2, 3, 4$ 

4.) 
$$\frac{\chi+3}{\chi-1}$$
 for  $\chi=2,3,4,5$ 

Evaluate the expression for the given values of the variables

$$2(0) + 3(2)$$
  
= 0 + 6

2) 
$$\frac{y_2 - y_1}{x_2 - x_1}$$
 for  $x_1 = 2$ ,  $x_2 = 5$ ,  $y_1 = 4$ ,  $y_3 = 6 \Rightarrow P_1 = (2, 4)$ ,  $P_2 = (5, 6)$ 

$$\frac{6 - 4}{5 - 2} = \frac{2}{3} = m \text{ in } y = \underline{m}x + b$$

_
2
.5.1