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Rate of Change

$$\frac{\Delta y}{\Delta x} = \frac{\text{change in } y}{\text{change in } x}$$

x	y
0	3
2	6
4	9
8	15
10	18

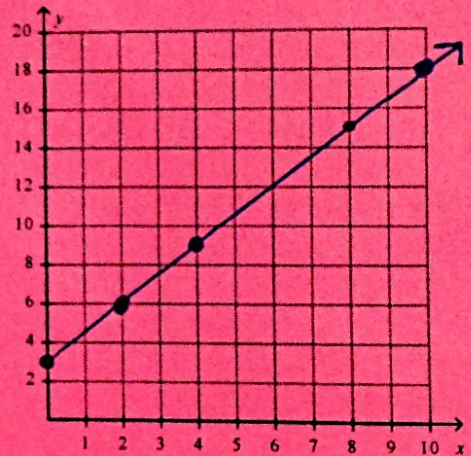
+2, +2, +4, +2 (x-axis changes)  
+3, +3, +6, +3 (y-axis changes)

Rate of Change:

$$\frac{3}{2} = \frac{6}{4} = \left(\frac{3}{2}\right)$$

Y-intercept:

3



Charlie bought a new computer for \$450 with his credit card. He plans to pay the minimum payment of \$25 each month.

# of Payments	Account Balance
0	450
1	425
2	400
3	375
4	350
5	325

+1, +1, +1, +1, +1 (x-axis changes)  
-25, -25, -25, -25, -25 (y-axis changes)

Rate of Change:

$$\frac{-25}{1}$$

Y-intercept:

450

