

Lesson-83

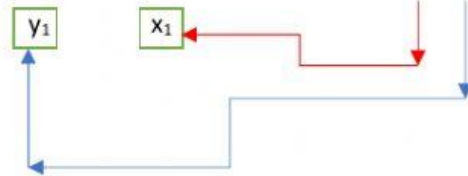
Finding Slope, Intercept and Equations

Formula used: $\frac{y_1 - y_2}{x_1 - x_2}$ points are (x_1, y_1) , (x_2, y_2)

SLOPE: $m = \frac{\boxed{} - \boxed{}}{\boxed{} - \boxed{}}$

- If points are $(3, 6)$, $(2, 4)$, then slope $m = \boxed{}$
- If points are $(1, 6)$, $(3, 10)$, then slope $m = \boxed{}$
- If points are $(12, 8)$, $(7, 18)$, then slope $m = \boxed{}$
- If points are $(5, 9)$, $(2, 3)$, then slope $m = \boxed{}$

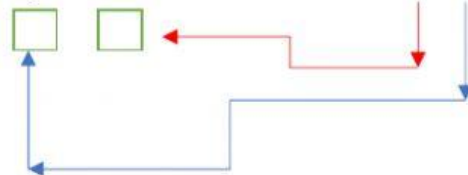
Formula Used: Line $y = m x + b$ passes (x_1, y_1)



Then find value of **b**

- If line $y = x + b$ passes $(4, 6)$, then value of $b = \boxed{}$
- If line $y = x + b$ passes $(10, 8)$, then value of $b = \boxed{}$
- If line $y = 2x + b$ passes $(5, 20)$, then value of $b = \boxed{}$
- If line $2y = 3x + b$ passes $(1, 4)$, then value of $b = \boxed{}$

Formula Used: Line $y = m x + b$



- If $m = 3$ and $b = 5$, then line is $y = \boxed{} x + \boxed{}$
- If $m = 7$ and $b = 9$, then line is $y = \boxed{} x + \boxed{}$
- If $m = -4$ and $b = 12$ then line is $y = -\boxed{} x + \boxed{}$