

Lesson-83

Finding Slope, Intercept and Equations

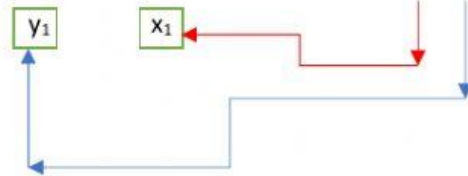
Formula used: $y_1 - y_2$ points are (x_1, y_1) , (x_2, y_2)

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

$x_1 - x_2$

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

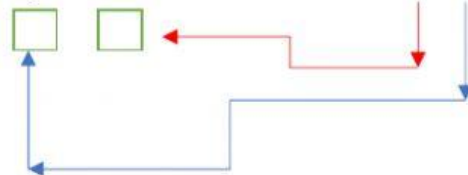
Formula Used: Line $y = m x + b$ passes (x_1, y_1)



Then find value of **b**

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

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



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