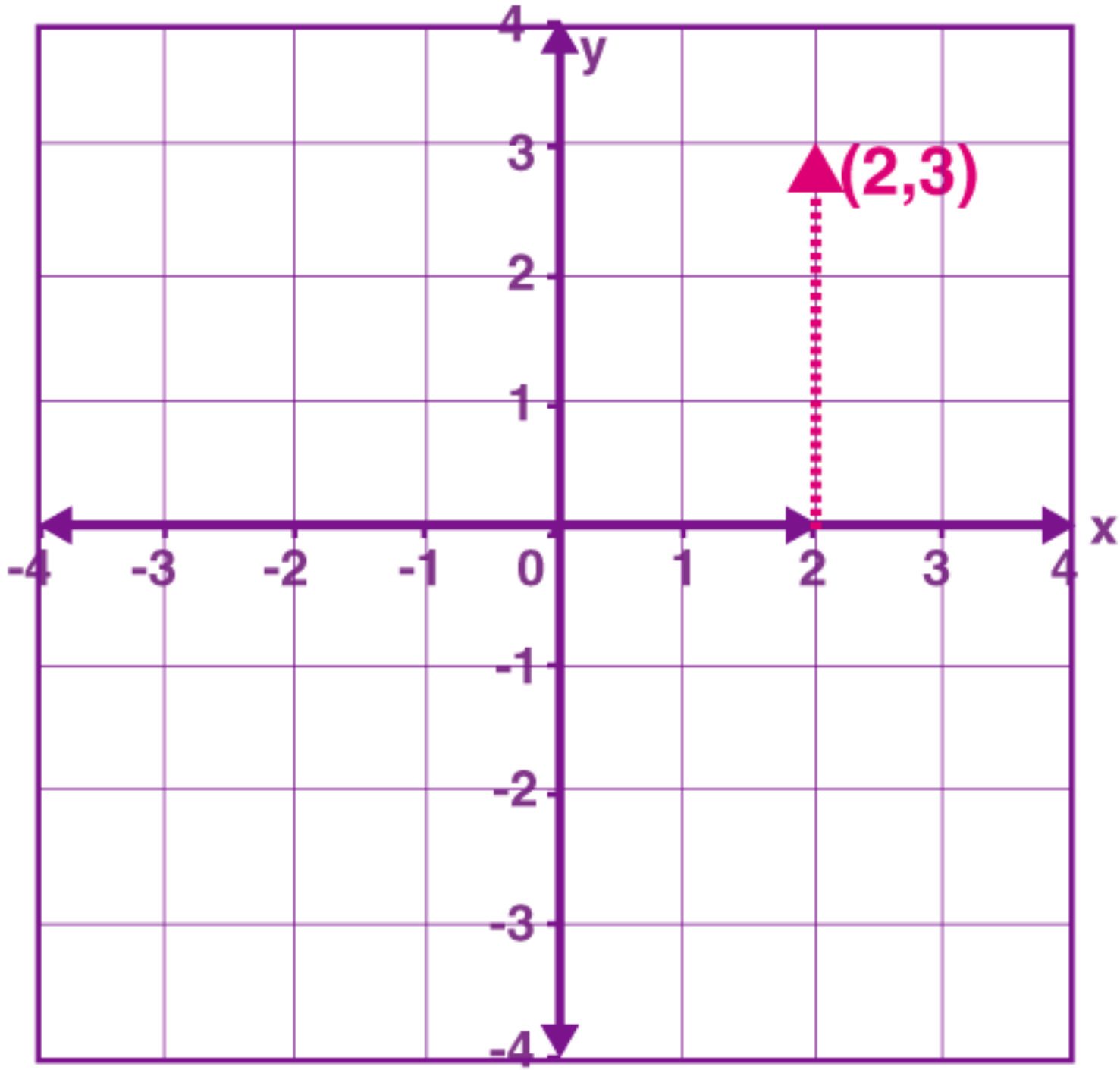
Three formulas

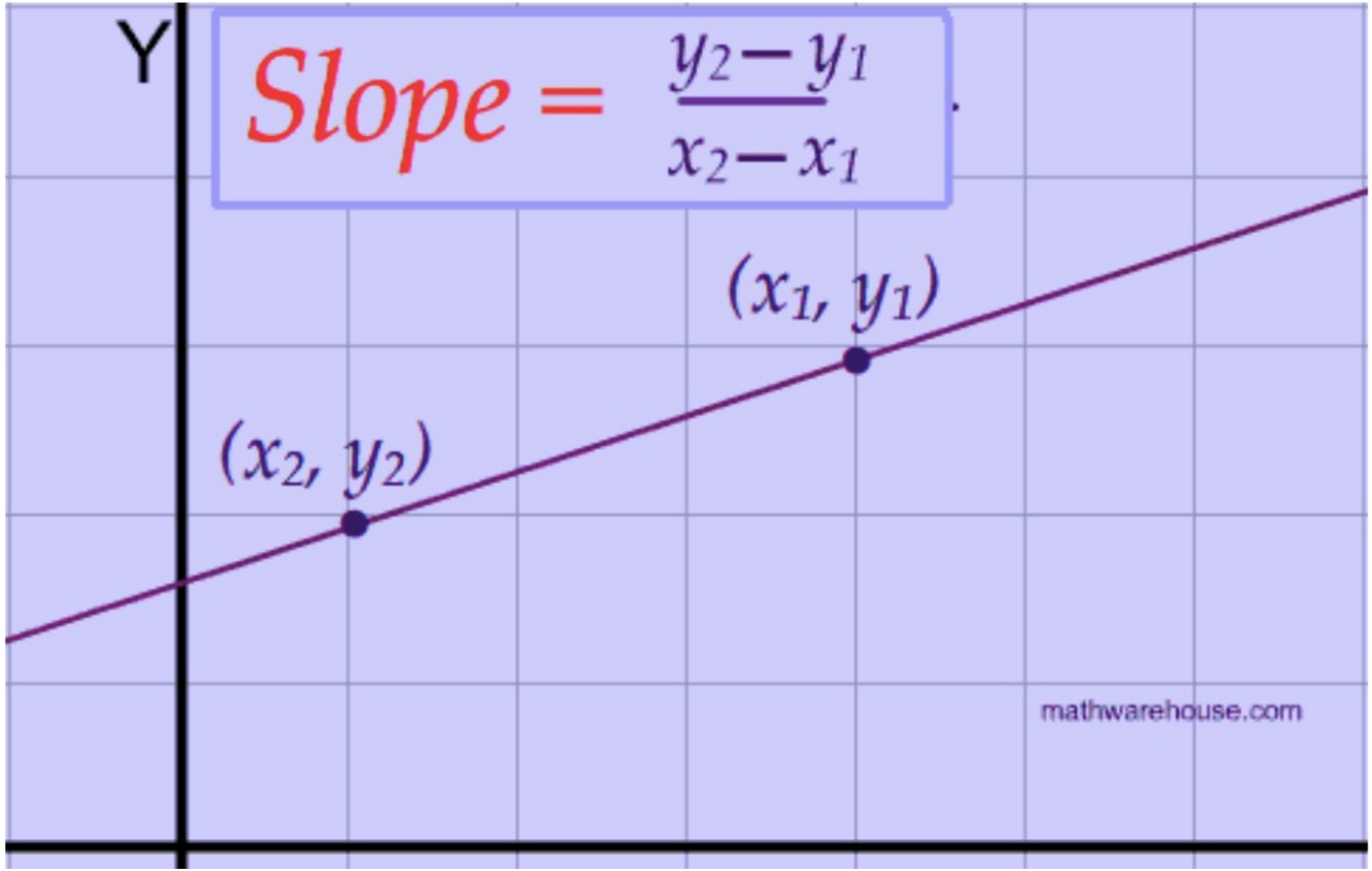
Slope of the line

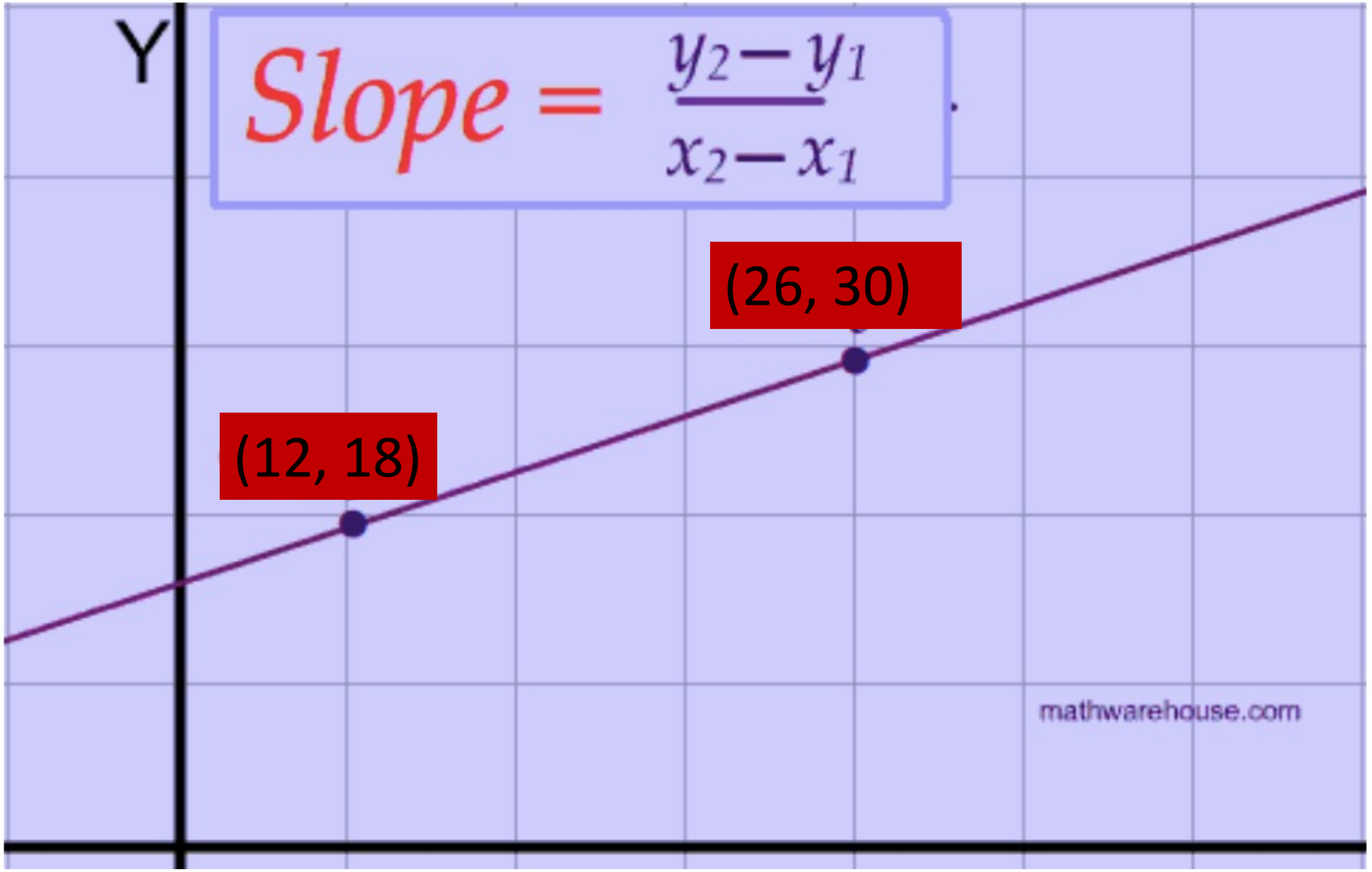
Mid-point

Distance

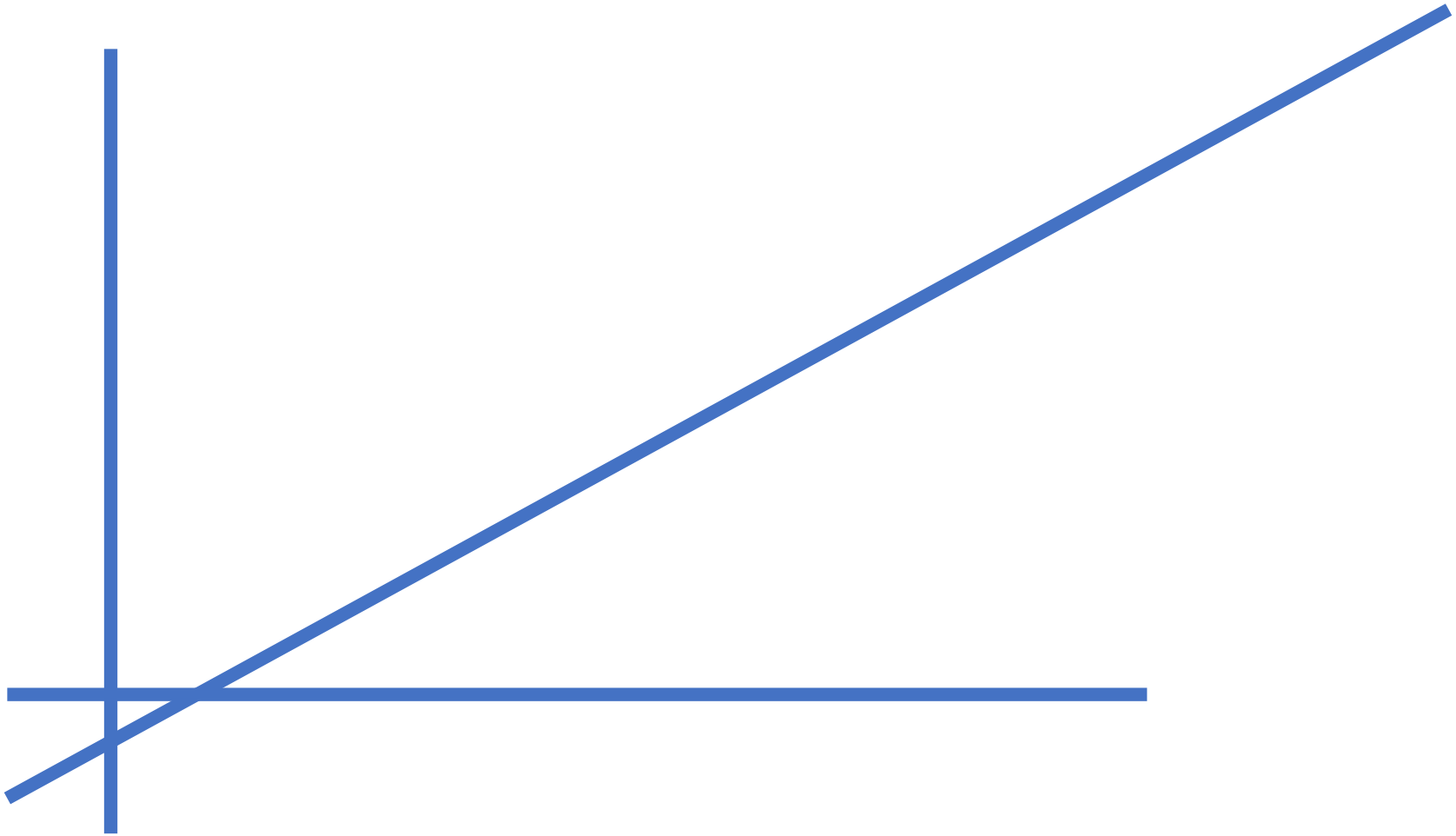
I think,
therefore
I am


y
x
(2,3)
4
3
2
1
-1
-2
-3
-4
-4
-3
-2
-1
0
1
2
3
4

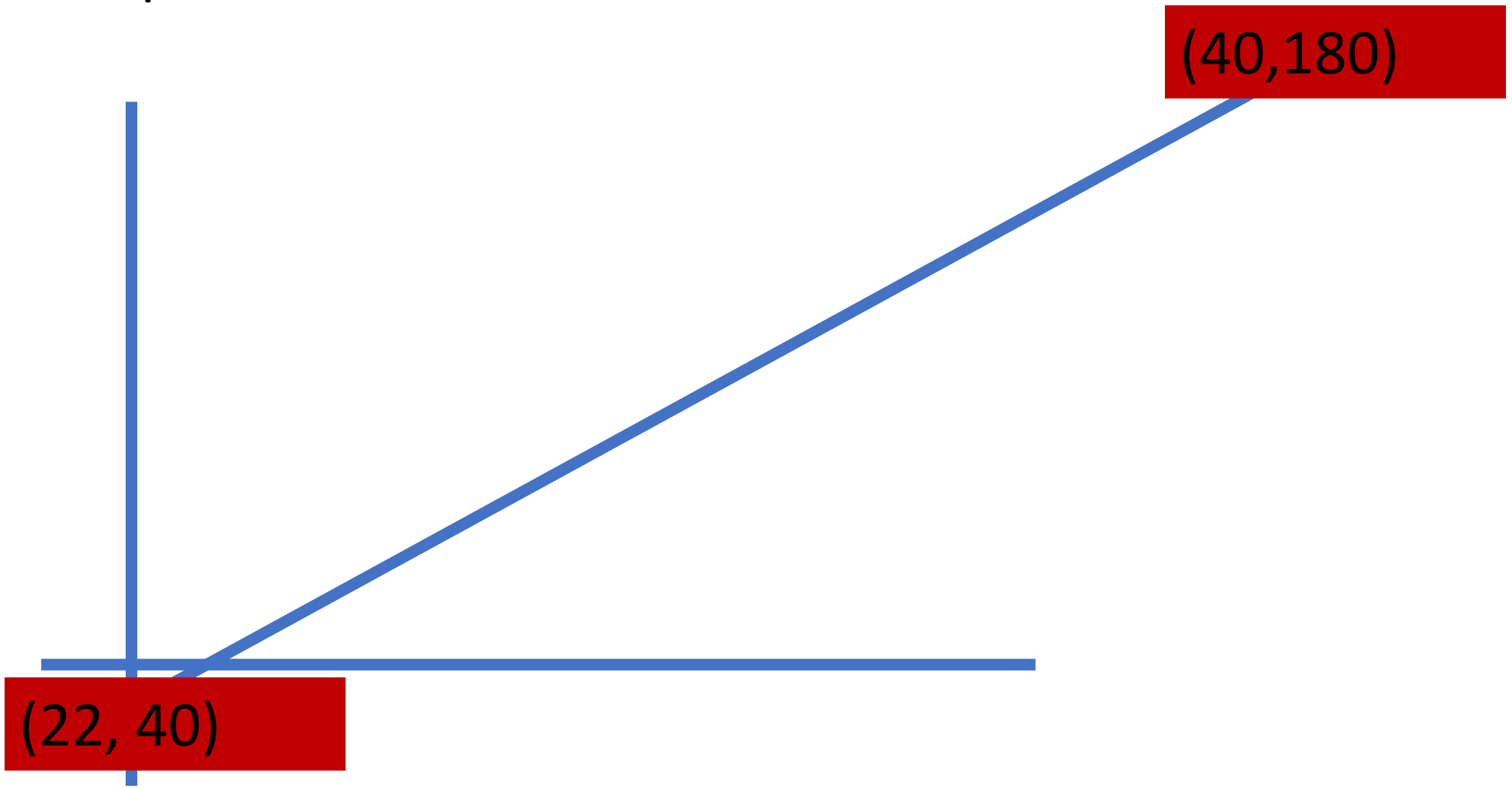

Y
Slope = $\frac{y_2 - y_1}{x_2 - x_1}$
(x_1, y_1)
(x_2, y_2)
mathwarehouse.com


Y
Slope = $\frac{y_2 - y_1}{x_2 - x_1}$
(26, 30)
(12, 18)
mathwarehouse.com

Mid-point $\frac{X1+X2}{2}, \frac{Y1+Y2}{2}$



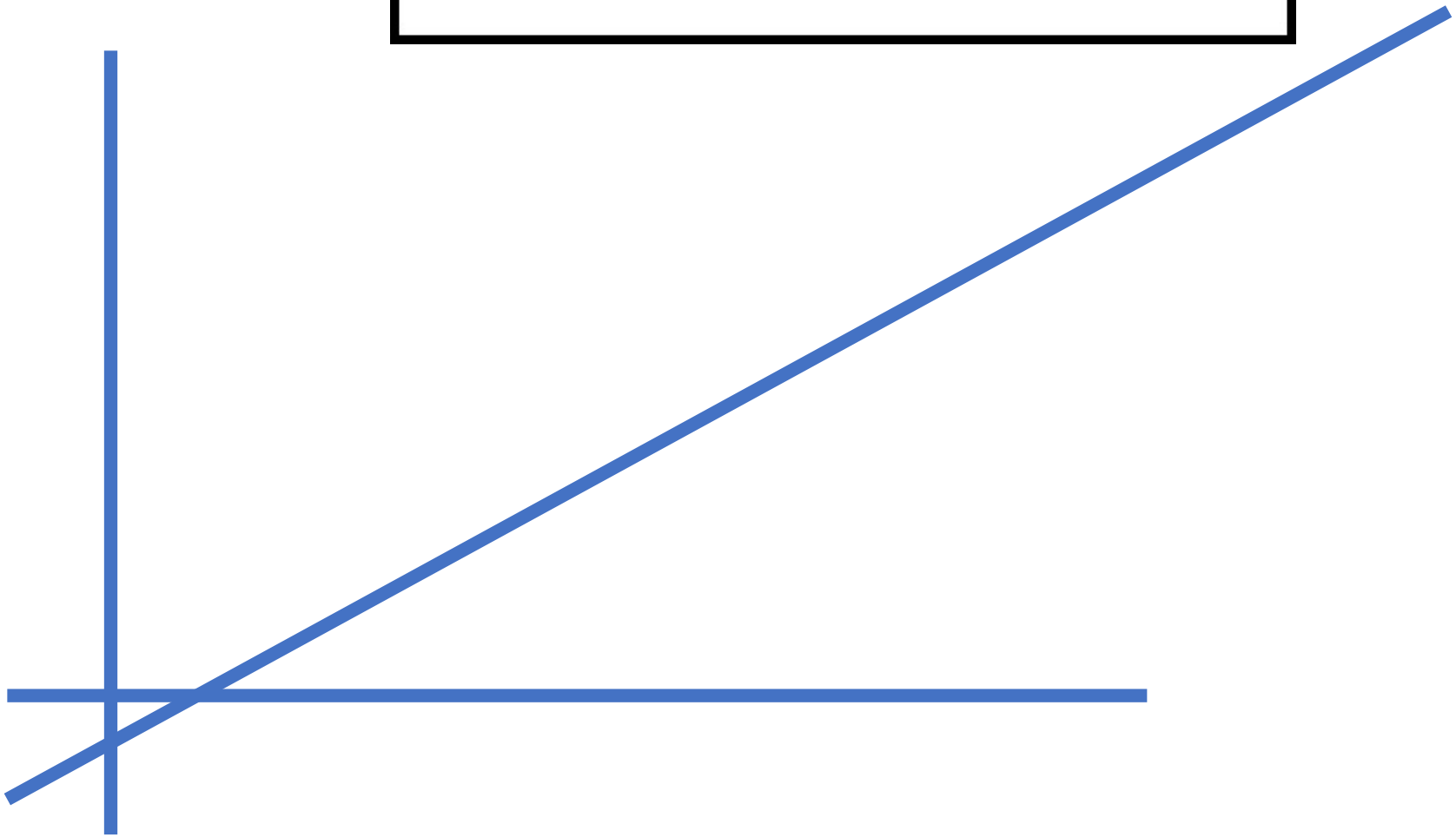
Mid-point



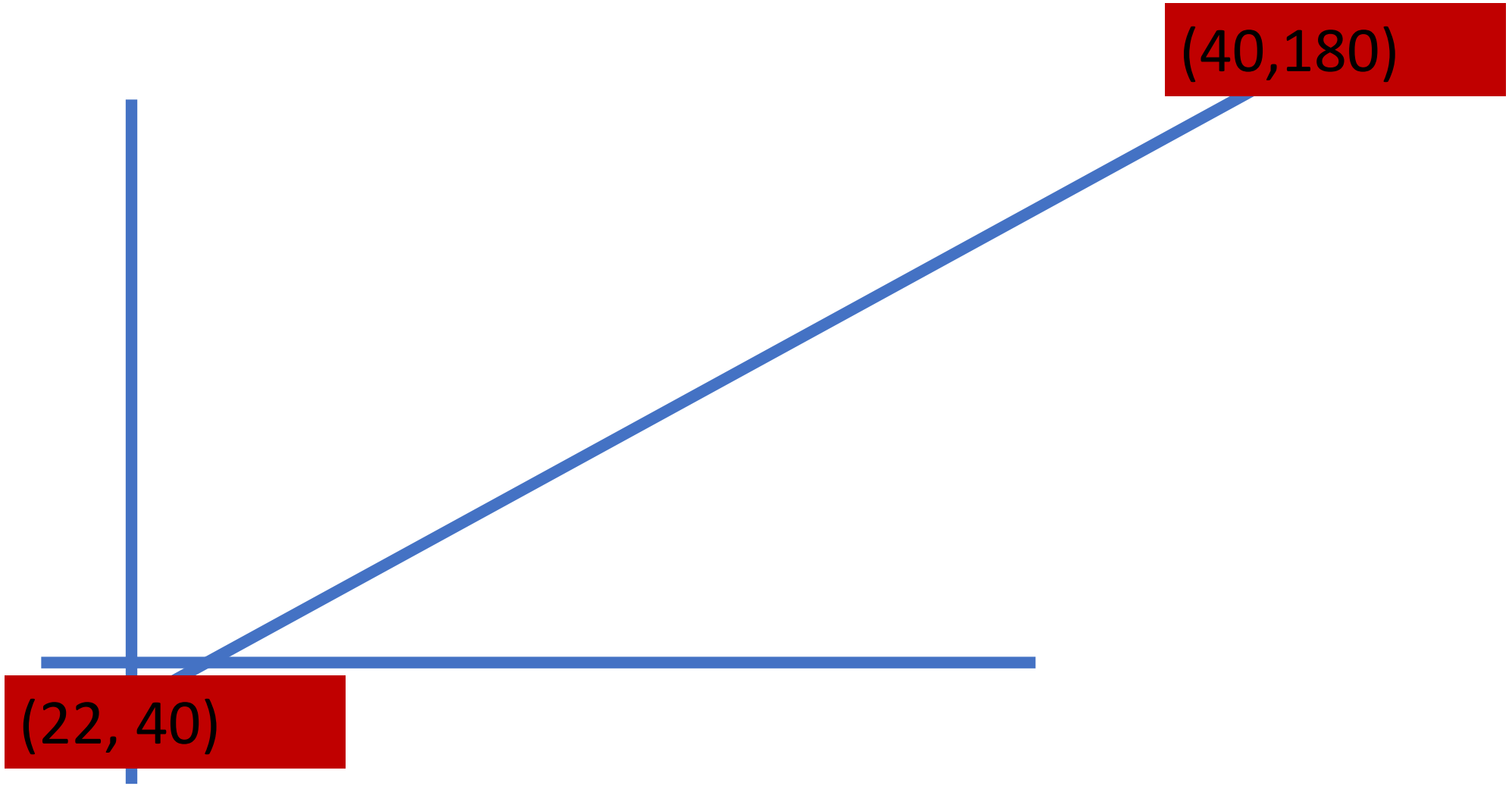
Distance

Distance Formula

$$d = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}$$



Distance



Slope, Mid-point, Distance