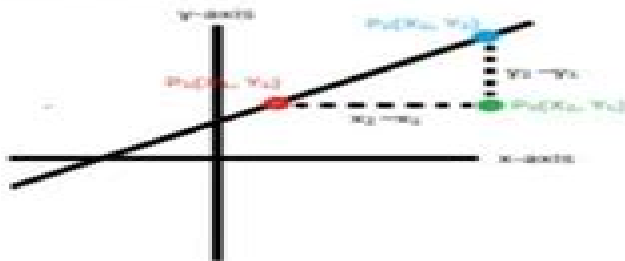


Analytic Geometry

Distance Formula



- At P_1P_2 , Pythagorean Theorem is satisfied.
 - Formula for Pythagorean Theorem: $a^2 + b^2 = c^2$
 - The hypotenuse of the right triangle is P_1P_2 ; sides are P_1P_3 and P_3P_2
 - Hypotenuse is equal c and the sides are equal to a and b in the
- $$a^2 + b^2 = c^2$$
- $(P_1P_2)^2 = (P_1P_3)^2 + (P_3P_2)^2$
 - $P_1P_2 = \sqrt{(P_1P_3)^2 + (P_3P_2)^2}$
 - The distance from P_1P_3 is $x_2 - x_1$ while P_3P_2 is $y_2 - y_1$

Therefore:

$$P_1P_2 = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Example Problem:

- Find the distance between point A (3, 6) and B (7, 10).

Given: A (3, 6)

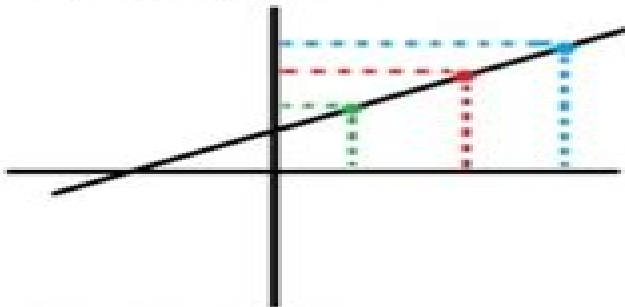
B (7, 10)

Formula: $AB = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ *distance formula*

Substitute the given.

Answer: $AB = 4\sqrt{2}$

Midpoint of a Line Segment



$$x_m = \frac{x_1 + x_2}{2}$$

$$y_m = \frac{y_1 + y_2}{2}$$

Example Problem:

- Find the other endpoint of a line segment AB if the other endpoint is A (3, 6) and the midpoint is (5, 8).

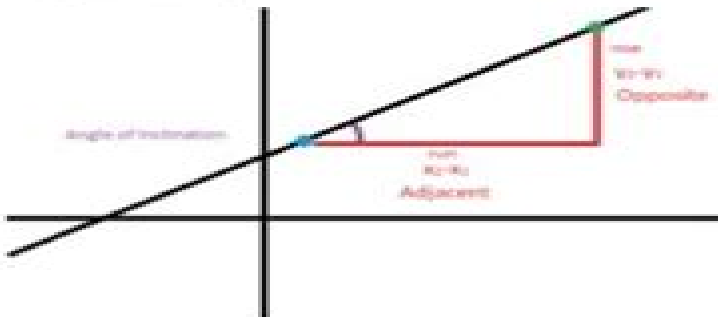
Given: A (3, 6), M (5, 8)

Formula: $x_m = \frac{x_1 + x_2}{2}$ and $y_m = \frac{y_1 + y_2}{2}$ *Midpoint Formula*

Substitute the given.

Answer: B (7, 10)

Slope of a straight Line



$$m(\text{slope}) = \frac{\text{rise}}{\text{run}}$$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$\tan \theta = \frac{\text{opposite}}{\text{adjacent}} = \frac{\text{rise}}{\text{run}} = \frac{y_2 - y_1}{x_2 - x_1}$$

Therefore:

$$m = \tan \theta$$

$$\theta = \tan^{-1}(m)$$

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SA Dillow



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