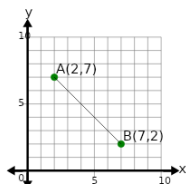


Solve geometric problems using analytic geometry

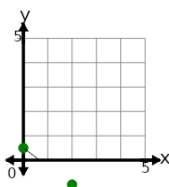
- 1** Is the mid-point of segment AB equal to (4.5, 4.5)



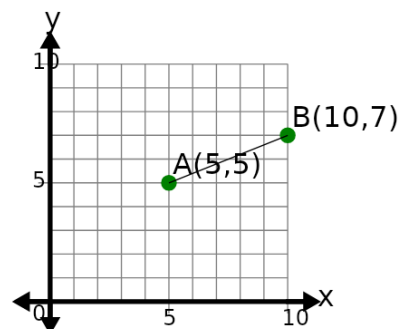
A No

B Yes

- 3** What slope would be PERPENDICULAR to the slope of the line on this graph?

A $m=2$ B $m=0.5$ C $m=1$ D $m=-2$

- 2** How would you find the mid-point of segment AB?



A
$$\left(\frac{5+10}{2}, \frac{5+7}{2}\right)$$

B
$$\left(\frac{5+7}{2}, \frac{5+10}{2}\right)$$

- 4** Find the distance between the given (x,y) points

Point A : (2,3)

Point B : (5,4)

A $\sqrt{10}$

B $\sqrt{5}$

C $\sqrt{19}$

D $\sqrt{8}$

E $\sqrt{12}$

F $\sqrt{18}$

- 5** Find the distance between the given (x,y) points

Point A : (0,2)

Point B : (5,-2)

A 3.88

B 9

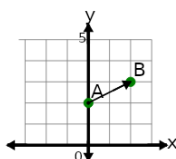
C 7.24

D 6.4

E 9.76

F 3.04

- 6** Find the distance between point A and point B on the diagram



A 3.08

B 3.92

C 4.76

D 1

E 2

F 2.24

- 7** (5, 4) and (3,8)

A $y = -2x + 16$

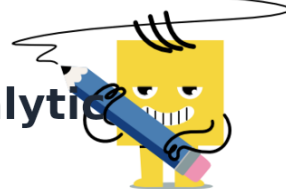
B $y = -2x + 13$

C $y = -2x + 5$

D $y = -2x + 14$

E $y = -\frac{1}{2}x + \frac{13}{2}$

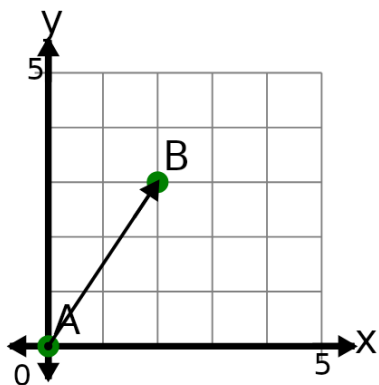
F $y = -2x + 8$



Solve geometric problems using analytic geometry

8

Find the distance between point A and point B on the diagram



A

$\sqrt{13}$

B

$\sqrt{8}$

C

$\sqrt{14}$

D

$\sqrt{9}$

E

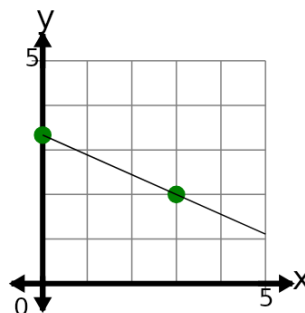
$\sqrt{19}$

F

$\sqrt{21}$

9

What line equation would have a slope that is PERPENDICULAR to the slope of the line on this graph?



A

$y = -3x$

B

$y = 3x$

C

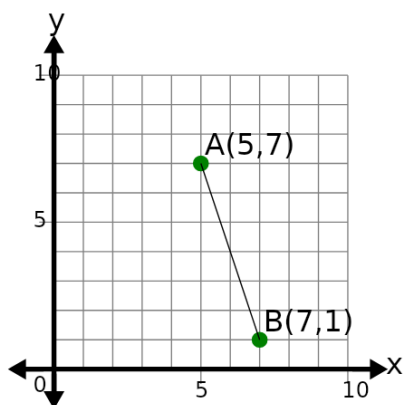
$y = \frac{1}{3}x$

D

$y = \frac{3}{2}x$

10

Find the mid-point of segment AB



A

$(6, 3)$

B

$(6, 4)$

C

$(5.5, 2.5)$

11

Find the distance between the given (x,y) points

Point A : (1,0)

Point B : (2,4)

A

$\sqrt{11}$

B

$\sqrt{7}$

C

$\sqrt{21}$

D

$\sqrt{17}$

E

$\sqrt{18}$

F

$\sqrt{19}$

12

Find the distance between the given (x,y) points

Point A : (3, -1)

Point B : (2, -2)

A

3.93

B

1.41

C

4.77

D

2.79

E

1.11

F

2.25