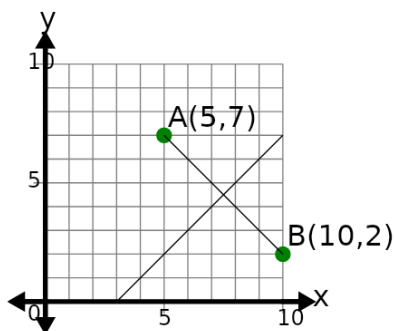


**Determine equations of perpendicular lines****1**

Find the slope of the PERPENDICULAR to segment AB



A

1

B

-1

C

 $\frac{5}{7}$

D

 $\frac{1}{5}$

E

 $\frac{7}{5}$

F

 $\frac{3}{5}$ **2**

How would you find the slope of the PERPENDICULAR to segment AB?

Point A : (2,7)

Point B : (4,5)

A

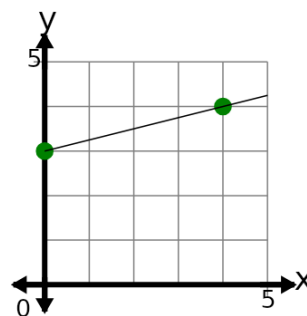
$$\frac{-(4-2)}{5-7}$$

B

$$\frac{5-7}{4-2}$$

3

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



A

$$y = -4x$$

B

$$y = -\frac{4}{2}x$$

C

$$y = -\frac{1}{4}x$$

D

$$y = 4x$$

4

What slope would be PERPENDICULAR to the slope of this line equation?

$$y = \frac{1}{4}x$$

A

$$m = -\frac{4}{2}$$

B

$$m = -\frac{1}{4}$$

C

$$m = -4$$

D

$$m = 4$$

5

What slope would be PERPENDICULAR to the slope of this line equation?

$$y = -5x + 5$$

A

$$m = -0.2$$

B

$$m = 5$$

C

$$m = 0.2$$

D

$$m = 0.1$$

**Determine equations of perpendicular lines****6**

What line equation would have a slope that is PERPENDICULAR to this slope?

$$m = -5$$

A

$$y = \frac{1}{5}x + 1$$

B

$$y = 5x + 1$$

C

$$y = -\frac{5}{2}x + 1$$

D

$$y = -\frac{1}{5}x + 1$$

7

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

$$y = -4x + 4$$

A

$$y = \frac{1}{4}x + 1$$

B

$$y = -\frac{1}{4}x + 1$$

C

$$y = -\frac{4}{2}x + 1$$

D

$$y = 4x + 1$$

8

What slope would be PERPENDICULAR to the slope of this line equation?

$$3x + 3y = 3$$

A

$$m = -1$$

B

$$m = -\frac{1}{2}$$

C

$$m = 1$$

9

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

$$2x + 1y = 2$$

A

$$y = \frac{1}{2}x + 2$$

B

$$y = -\frac{2}{2}x + 2$$

C

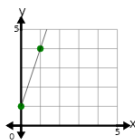
$$y = -\frac{1}{2}x + 2$$

D

$$y = 2x + 2$$

**Determine equations of perpendicular lines****10**

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



A $0.5x + 3y = 4$

B $0.33x + 1y = 1.33$

11

Find the equation for the perpendicular bisector of segment AB

Point A: (5, 2)

Point B: (7, 8)

A $y = -\frac{1}{3}x + 7$

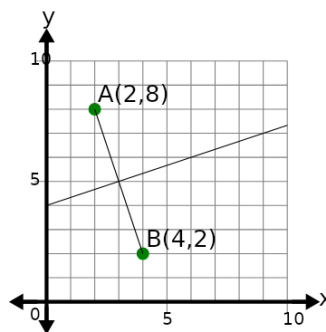
B $y = -\frac{1}{8}x + \frac{23}{4}$

C $y = -\frac{1}{3}x + \frac{23}{3}$

D $y = -3x + 23$

12

Find the equation for the perpendicular bisector of segment AB



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

B $y = \frac{1}{3}x + 4$

C $y = \frac{1}{3}x + \frac{4}{3}$

D $y = \frac{1}{3}x + 5$