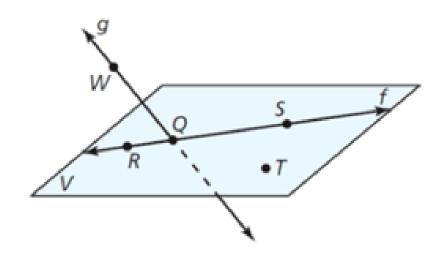
#### 1. What is an incorrect name for the plane shown?



O Plane V

Plane SQT

Plane RTS

Plane RQS

Count be collinear

# Q. What is the distance between the following points: A(5, -3) & B(7, 4)

$$d = \sqrt{(5-7)^2 + (-3-4)^2}$$

$$= \sqrt{(-2)^2 + (-7)^2}$$

$$= \sqrt{4+49} = \sqrt{53}$$

Q. M is the midpoint of segment JL. J has coordinates (2, -1) and M has coordinates (-4, 3). What are the coordinates of L?

$$(-4,3) = \frac{2+x}{2}, -\frac{1+4}{2}$$

$$-4 = \frac{2+x}{2}, 3 = -\frac{1+4}{2}$$

$$-8 = 2+x$$

$$-2-2 + 1 + 1 + 1$$

$$-10 = x$$

$$(-10,7)$$

Q. What are the coordinates of the midpoint of a line segment that connects the points (7, -3) and (-5, 6)?

$$\frac{7+(-5)}{2}$$
,  $-\frac{3+6}{2}$ 

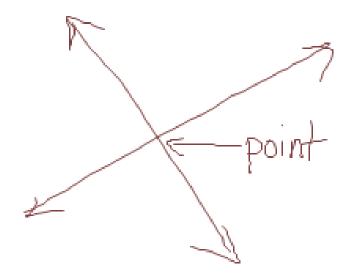
### 7. If two lines intersect, they intersect in a \_\_\_\_\_

O line

O plane

point

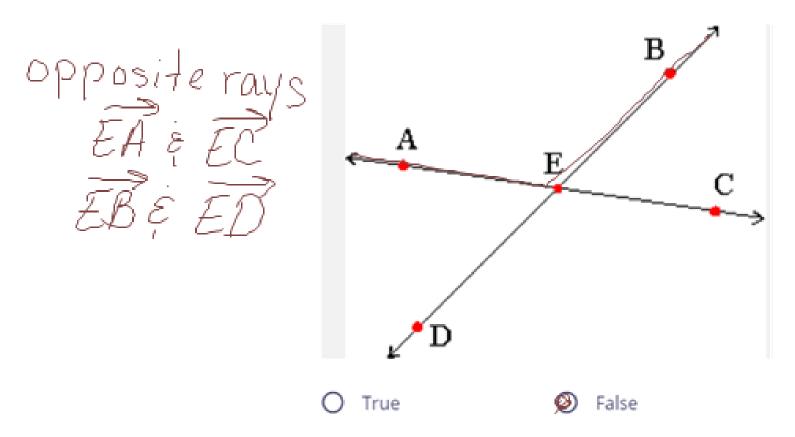
🔵 ray



### Q. If two planes intersect, the intersection is a \_\_\_\_\_

- answer choices point plane arc line

#### 10. Ray EA and Ray EB are opposite rays



14. Find x.

$$C \stackrel{4}{\longrightarrow} D$$

$$\downarrow 4 + x$$

$$\downarrow 4 + x$$

$$\downarrow 4 + 2x - 11 = 4 + x$$

$$\downarrow 7 - 11 = 4 + x$$

$$\downarrow 7 - 2x = 4 + x$$

$$\downarrow 7 - 7 + x = 4$$

17. A statement accepted as true without proof is a		
O Theorem	0	Definition
Postulat	e O	Hypothesis

#### 18. Find the perimeter of □ABC.

$$AB = \sqrt{(-4+4)^2 + (3-5)^2}$$

$$= \sqrt{(-3)^2 + (-2)^2}$$

$$= 3.6$$

$$BC = \sqrt{(-1-2)^2 + (5-3)^2}$$

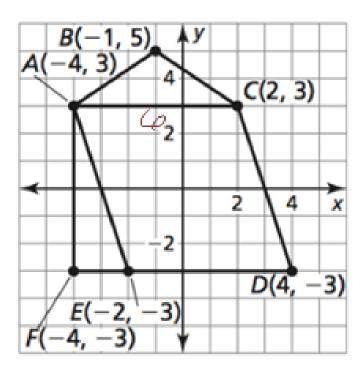
$$= \sqrt{(-3)^2 + (2)^2}$$

$$= \sqrt{9+4}$$

$$= \sqrt{13}$$

$$= 3.6$$

$$3.6 + 3.6 + 6 = 13.2$$



$$\frac{4x + 6 = 7x - 9}{-4x} - \frac{9}{4x} - \frac{9}$$

21. D is the midpoint of EF.

$$ED = 4x + 6$$

$$DF = 7x - 9$$

$$ED = 4(5) + 6$$

$$= 26$$

$$DF = 7(6) - 9$$

$$= 26 + 26$$

$$= 52$$

## 22. Find the slope of the line that passes through the points (2, 4) and (6, 12)

$$m = \frac{12 - 4}{6 - 2}$$

$$= \frac{8}{4}$$

$$= 2$$

24. What is the equation of a line parallel to the following line that passes through the given point? y = -4x + 6 (2, -1)

$$y = 1/4x + 6$$

$$M = 3$$

$$L = -\frac{1}{3}$$

25. What is the equation of a line that is perpendicular to this line and goes through the given point?

$$y = 3x + 2$$
 (3, -4)

$$y = -1/3x - 5$$

$$y = -1/3x - 3$$

$$\begin{array}{c} y - - 4 = -\frac{1}{3}(x - 3) \\ y + 4 = -\frac{1}{3}x + 1 \\ - 4 = -\frac{1}{3}x - 3 \end{array}$$

#### 26. Are these two lines parallel, perpendicular or neither?

$$y = -1/3x - 5$$
  
 $y = 1/3x + 2$ 
 $M = -\frac{1}{3}$ 
 $M = \frac{1}{3}$ 

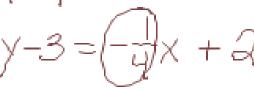
O Parallel

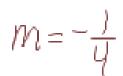
Perpendicular

Neither

27. Use the equations given to determine if the following lines are parallel, perpendicular, neither or both. M = 4

y=4x-2



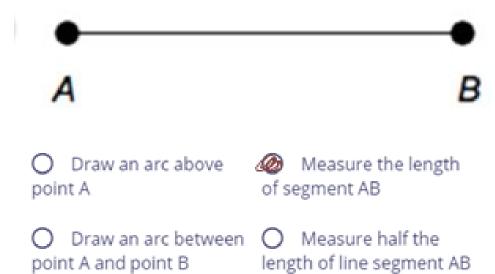


O parallel



perpendicular

 neither parallel nor perpendicular  both parallel and perpendicular 31. When copying line segment AB using a straight edge and a compass, the compass should be used to:



#### 32. What is being constructed in the figure?



O the perpendicular bisector of line m

the line perpendicular to line m through a point on the line

O the line parallel to line m through a point NOT on the line an angle that has line
 m as its bisector

#### 36. Find PQ