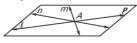
Answers for 1.1

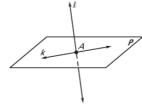
1.1 Skill Practice

- **1. a.** point *Q*
 - **b.** line segment MN
 - c. ray ST
 - **d.** line FG
- 2. Yes; no; collinear points are points that lie on the same line, while coplanar points lie in the same plane but not necessarily on 14. Sample: the same line.
- **3.** \overrightarrow{QW} , line g
- 4. Sample answer: plane RTS
- **5.** Sample answer: points R, Q, S: point T
- 6. point W
- 7. Yes; through any three points not on the same line, there is exactly one plane.

- 8. \overline{YZ}
- 9. \overrightarrow{VY} , \overrightarrow{VX} , \overrightarrow{VZ} , \overrightarrow{VW}
- **10.** \overrightarrow{VX} and \overrightarrow{VW} , \overrightarrow{VY} and \overrightarrow{VZ}
- 11. \overrightarrow{WX}
- **12.** Point V must lie between po W and Z, which means the tl points must be collinear.

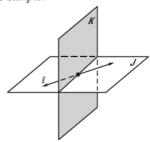


15. Sample:

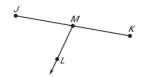


- **16.** A
- **17.** point *R*
- **18.** \overrightarrow{FG}
- **19**. \overrightarrow{RS}
- 20. no; yes
- 21. yes; yes

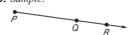
- 22. Sample answer: plane PEF, plane PEH, plane HEF
- 23. Sample:



- **24.** \overrightarrow{AC} (or \overrightarrow{AD}), \overrightarrow{AB} (or \overrightarrow{AE}), \overrightarrow{DC} (or \overrightarrow{DA}), \overrightarrow{EB} (or \overrightarrow{EA}), \overrightarrow{CB} , \overrightarrow{BC} , \overrightarrow{CD} , \overrightarrow{CA} ; \overrightarrow{CD} and \overrightarrow{CA} , \overrightarrow{BA} and \overrightarrow{BE}
- 25. Sample:



26. Sample:



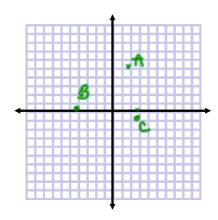
Warm Up

- Sketch two lines that lie in a plane but don't intersect. 1.
- 2. Plot the points:

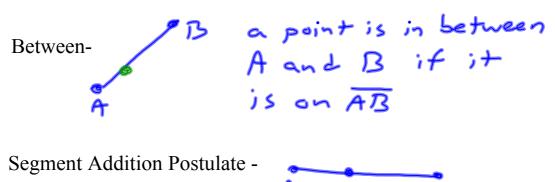
$$B(-4,0)$$

$$A(2,5)$$
 $B(-4,0)$ $C(3,-1)$

Solve: 3x + 5 + 2x - 4 = 363.

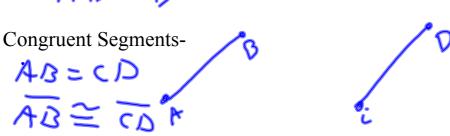


1-2 Segments and Congruence

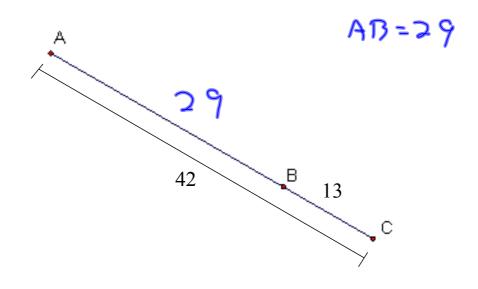


$$AB + B = A = A$$

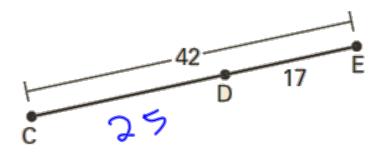
Truent Segments.



Ex. 1 Find AB

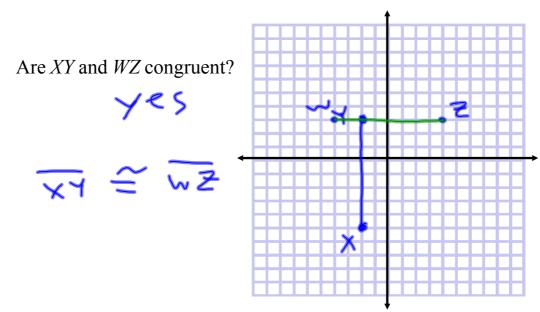


Ex. 2 Find CD



Ex. 3 Graph the points:

X(-2,-5), Y(-2,3), W(-4,3), and Z(4,3).

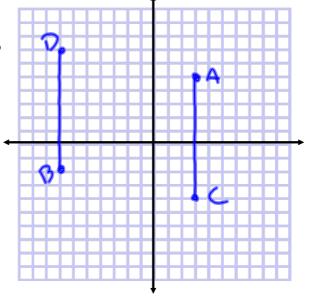


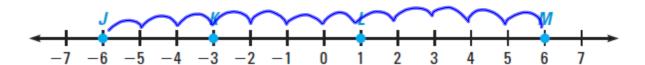
Ex. 4 Graph the points:

A(3, 5),
$$B(-7, -2)$$
, $C(3, -4)$, and $D(-7, 7)$.

Are AC and BD congruent?

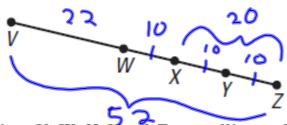






Ex. 5 Use the number line to find the indicated distance.

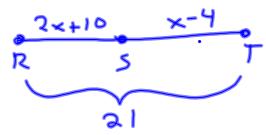
- a. *JK*
- b. *JL*
- c. JM
- d. *KM*



- Points V, W, X, Y, and Z are collinear, VZ = 52, XZ = 20, Ex. 6 and WX = XY = YZ. Find each length.
 - 10 a. WX
- d. VX
- b. VW
- e. *WZ* 30
- c. WY 20 f. VY 42

Point *S* is between *R* and *T* on \overline{RT} Ex. 7 Write an equation and solve for x. Then find RS and ST.

$$RS = 2x + 10$$
$$ST = x - 4$$
$$RT = 21$$



$$\frac{21 = 2x + 10 + x - 4}{5T = 1}$$

$$\frac{-6}{15 = 3x}$$

$$\frac{-6}{15 = 3x}$$
RS=20
$$5T = 1$$

Ex. 8 Point S is between R and T on \overline{RT} Write an equation and solve for x. Then find RS and ST.

$$RS = 3x - 16$$

 $ST = 4x - 8$
 $RT = 60$
 $RS = 20$
 $ST = 40$
 $S = 20$
 $ST = 40$
 $S = 84$
 $S = 84$

Ex. 9 Point S is between R and T on \overline{RT} Write an equation and solve for x. Then find RS and ST.

> Make up your own problem similar to the previous ones. Then trade problems with a partner and solve each other's problems.