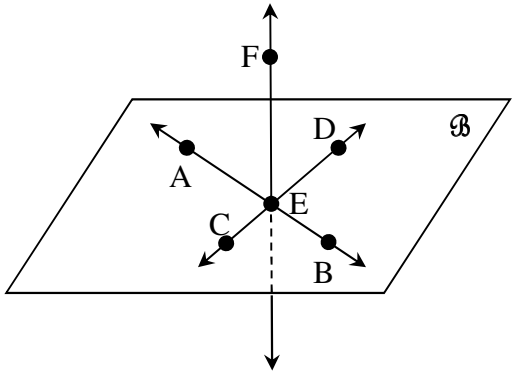
Name_____Per._____Date_____
Geometry Ch. 1 Practice Test

For problems 1-3, use the figure below to name each of the following.



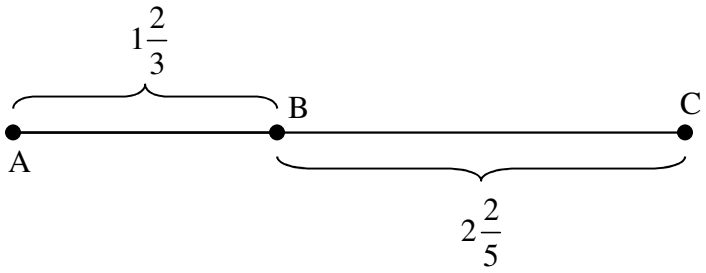
1. Name 2 intersecting lines.

2. What is another name for plane 𝔅?

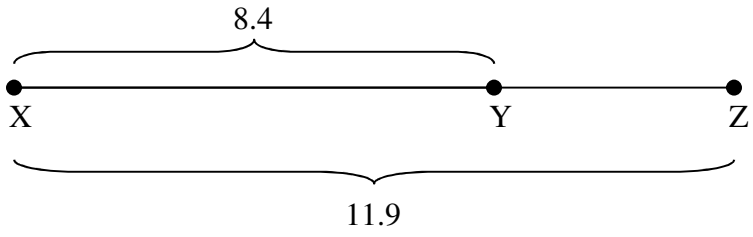
3. Name a point not contained in plane 𝔅.

Find the measurement of each segment.

4. AC



5. YZ



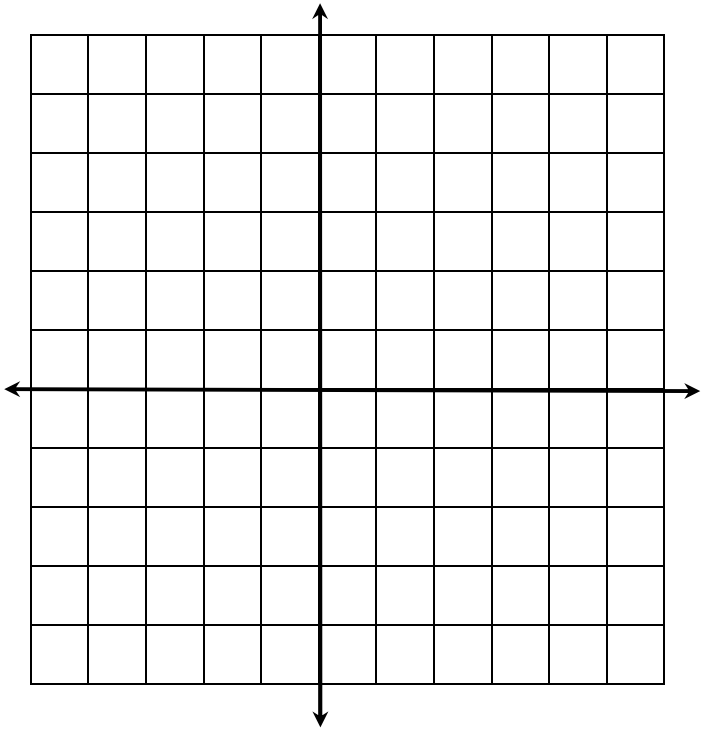
Find the value of the variable and BC if B is between A and C.

6. AB = $2x$, BC = $x + 12$, AC = $5x - 24$ x = _____

BC = _____

Use the Pythagorean Theorem to find the distance between the following 2 points.
Graph the points and draw the right triangle.
Leave your answer in simplified square root form.

7. $(-2, 6)$, $(2, -4)$



Use the distance formula to find the distance between the following 2 points. Leave your answer in simplified square root form

8. $(5,3),\ (-3,11)$

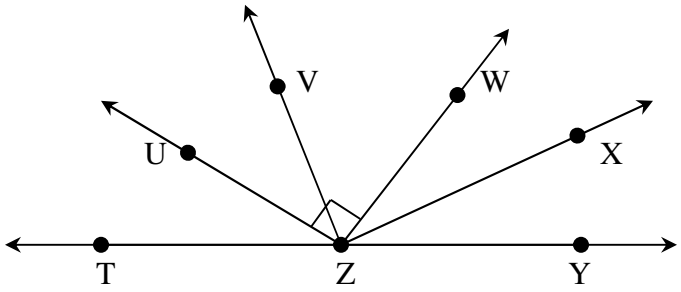
Find the coordinates of the midpoint M of $\overline{AB}$.

9. $A(-12,-6),\ B(4,2)$

Find the coordinates of the endpoint B, given that M is the midpoint of $\overline{AB}$.

10. $A(9,-3),\ M(-2,5)$

Use the following figure for problems 11-13. $\overrightarrow{ZT}$ and $\overrightarrow{ZY}$ are opposite rays. $\overrightarrow{ZX}$ bisects ∠WZY. ∠UZW is a right angle.



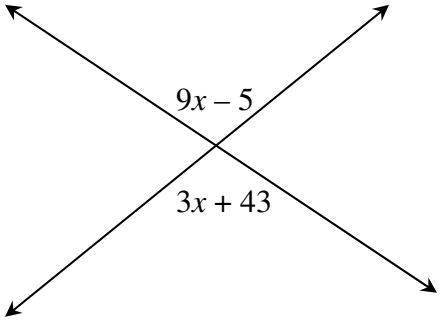
11. If $m\angle WZX = 5a - 7$ and $m\angle XZY = 3a + 13$, then find $m\angle WZY$.

12. If $m\angle TZU = 5b + 10$ and $m\angle WZY = 7b - 28$, find b.

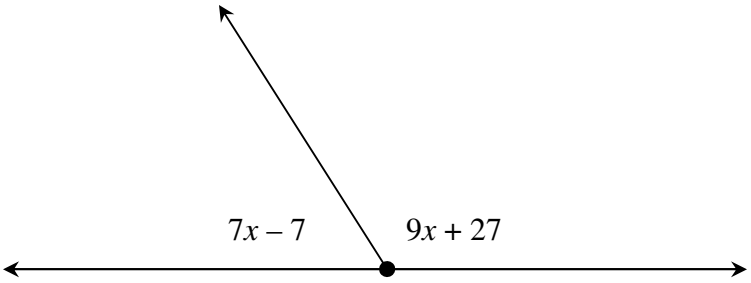
13. If $m\angle TZV = 13c$, $m\angle TZU = 7c + 9$, and $m\angle UZV = 5c - 3$, find $m\angle UZV$

** Pictures are not necessarily drawn to scale**

14. Find x.



15. Find x.



16. Find x