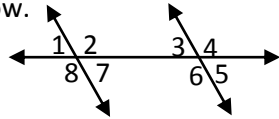
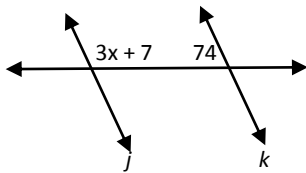


- The area of a rectangular office is 192 square feet. One side of the office is 16 feet long. What is the perimeter of the office?
- $M$  is the midpoint of  $\overline{PQ}$ ,  $P$  has coordinates  $(-5, 3)$ , and  $M$  has coordinates  $(2, -6)$ . What are the coordinates of  $Q$ .

- Use the diagram below.

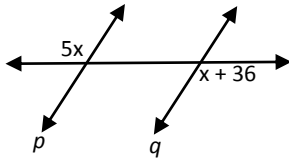


- which pair of angles are corresponding angles?
  - Complete the statement:  $\angle 3$  &  $\angle 2$  are an example of \_\_\_\_\_ angles.
- If  $j \parallel k$  what is the value of  $x$ ?



- Which biconditional statement is true?
  - Mr. Clarke lives in San Jose iff he lives in California
  - A rectangle has sides lengths of 4 & 9 iff its area is 36
  - Two segments are congruent iff they have the same measure
  - Two angles measure 45 iff they are complementary
- If  $5x - 4 = 16$  and  $x = y$  why is  $5y - 4 = 16$ 
  - Addition property of Equality
  - Multiplication property of Equality
  - Symmetric Property of Equality
  - Substitution Property of Equality

7. If  $p \parallel q$  what is the value of  $x$ ?

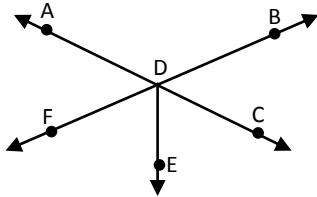


8. If the complement of an angle measures 68 degrees, what is the measure of its supplement?

9. What is created by the intersection of a line and a plane?

10. Points A, B and C are collinear, and B is between A and C. If  $AB = 12x - 3$ , and  $AC = 15x + 9$ , and  $BC = 12x + 3$ , what is measure of AC?

11. Use the diagram below:



A. Name a pair of supplementary angles.

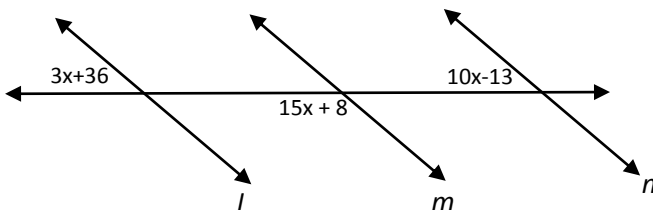
B. Name a pair of vertical angles.

12. What is the area of a circle that has a diameter that measures 2 meters. Use 3.14 for  $\pi$ .

13. Name one of the sides of  $\angle XYZ$ .

14. The ratio of the measures of complementary angles is 4:5. What is the measure of the larger angle?

15. If  $x = 7$ , which lines must be parallel?

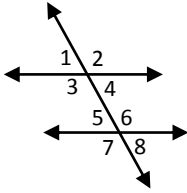


16. What is the slope of the line whose equation is  $4x - 8y = 12$ ?

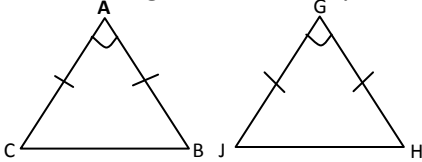
17. What is the slope of a line that is parallel to graph of  $y + 5 = -5(x - 3)$

18. What is the slope of the perpendicular line to the equation  $2x - 6y = 0$

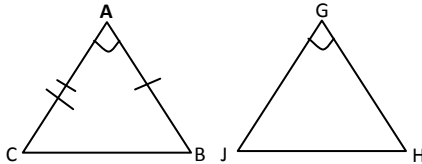
19. Which angle is the alternate interior angle with  $\angle 4$ ?



20. Given the figures below, why is  $\overline{AB} \cong \overline{GH}$ ?

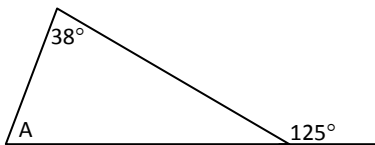


21. What do you need to know to prove the triangles below congruent by SAS?

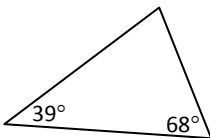


22. If  $\triangle STU \cong \triangle XYZ$  which  $\angle$  is congruent to  $\angle T$ ?

23. What is the measure of  $\angle A$ ?

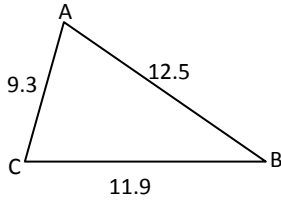


24. Describe the triangle below using side lengths and angle measures.



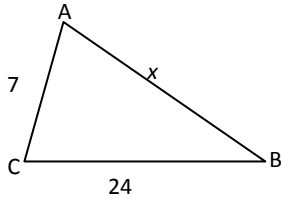
25. Determine the distance between  $(7, -3)$  and  $(-3, 7)$ .

26. Determine the angles from smallest to greatest in the triangle below.

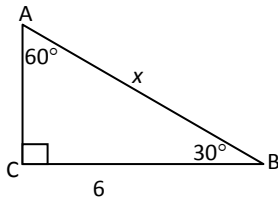


27. From the triangle in number 26 above, compare  $\angle A$  and  $\angle C$ .

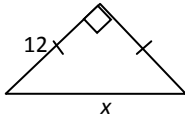
28. Determine the value of  $x$  in the triangle below.



29. Determine the value of  $x$  in the triangle below.



30. Determine the value of  $x$  in the triangle below.



31. Classify the triangle with side lengths of 7, 11, 13 as acute, obtuse, or neither. SHOW ALL WORK.

32. What number forms a Pythagorean triple with 20 and 25?

33. If you want to construct a midpoint of  $\overline{DE}$ , first you place the point of your compass on point D to swing an arc. How far should you open your compass to swing this arc?

34. Which property justifies the statement "If  $4y = w$ , and  $w = -6$ , then  $4y = -6$ ?"

35. If you know that 2 angles are alternate interior angles and they are congruent, what theorem would you use to determine that two lines are parallel?