

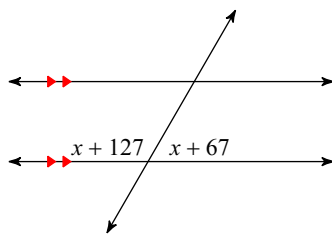
Geometry - PRACTICE EXAM 2 - FALL 2018

Write the correct formula for the definition

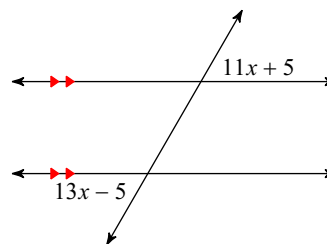
- 1) This formula is used to find the center of a line segment.
- 2) This formula is used to find the length of a line segment
- 3) This formula is used to find the rate of change in a line segment

Solve for x.

4)



5)



Find the midpoint of the line segment with the given endpoints.

6) $(\frac{3}{2}, \frac{2}{3}), (5\frac{7}{11}, 4\frac{3}{8})$

7) $(-1\frac{7}{10}, \frac{1}{4}), (-\frac{1}{3}, 1\frac{3}{4})$

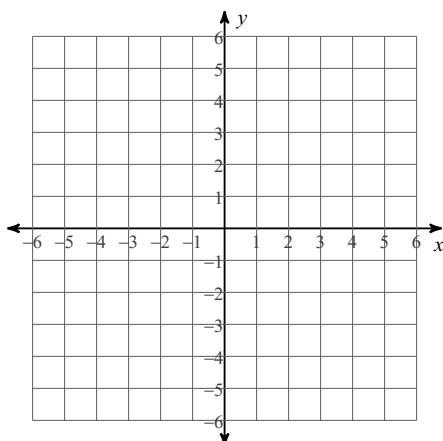
Find the distance between each pair of points. Round your answer to the nearest tenth, if necessary.

8) $(-2.2, -3.2), (-5.8, -1.6)$

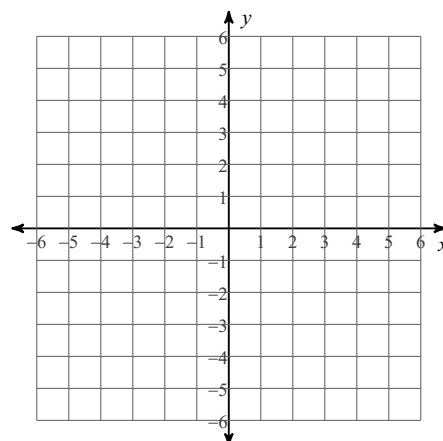
9) $(-1.9, 3.3), (1, -4.1)$

Sketch the graph of each line. LABEL AT LEAST 2 POINTS

10) $9x + 4y = -16$



11) $5x - 4y = 8$



Find the slope of a line perpendicular to each given line.

12) $3 = y + 2x$

13) $x + y = -4$

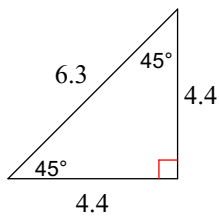
Write the slope-intercept form of the equation of the line described.

14) through: $(-3, 3)$, perp. to $y = \frac{3}{4}x + 1$

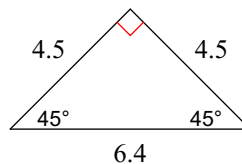
15) through: $(0, 1)$, parallel to $y = 2x - 1$

Classify each triangle by its angles and sides.

16)

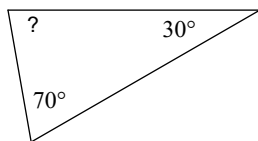


17)



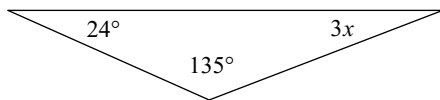
Find the measure of each angle indicated.

18)

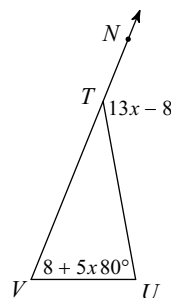


Solve for x .

19)

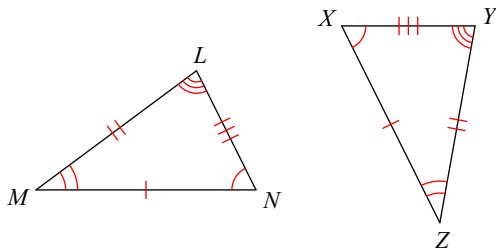


20)



Complete each congruence statement by naming the corresponding angle or side.

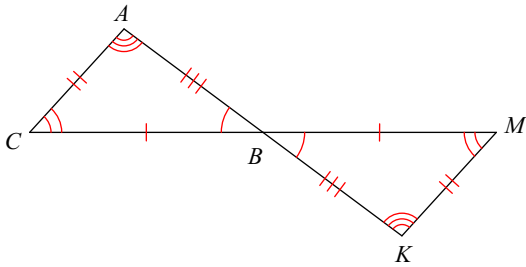
21) $\triangle NML \cong \triangle XZY$



$\angle N \cong ?$

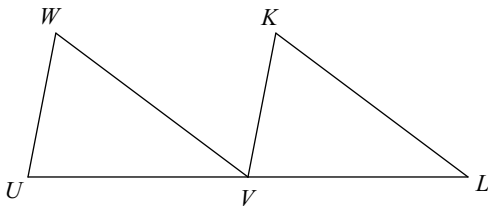
Write a statement that indicates that the triangles in each pair are congruent.

22)



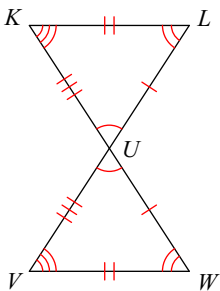
Mark the angles and sides of each pair of triangles to indicate that they are congruent.

23) $\triangle UWV \cong \triangle VKL$



Write a statement that indicates that the triangles in each pair are congruent.

24)



Pick the best answer

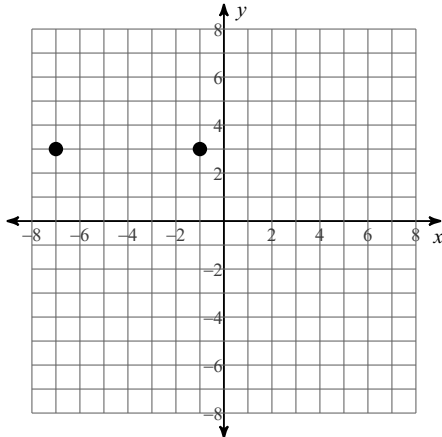
- 25) Bailey wants to build a fence around her backyard. The professional survey recorded at Emory City Hall shows her backyard to have a perimeter of 488 feet. Bailey measures her yard four times. Which measurement is the most accurate of the four recorded?
- A) 486 feet and 6 inches B) 486.55 ft
C) 487 D) 486.5 ft

Round to the nearest tenth

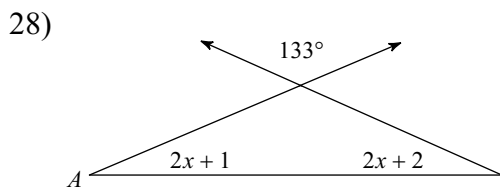
- 26) Line segment AB has endpoints A(7.5, 4.2) and B(2.3, 5.4). Find the coordinates of the point that divides the line segment directed from A to B in the ratio of 1 : 3.

Create an equation

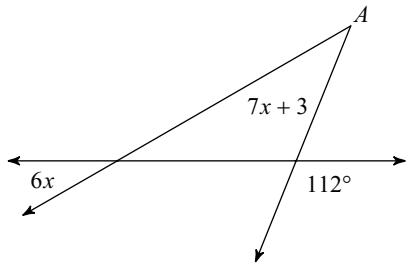
- 27) Write the equation of the perpendicular bisector of this line segment.



Find the measure of angle A.



29)



What is the best description for the lines?

30) Equation 1: $2x - 3y = 6$
Equation 2: $y = (2/3)x - 6$

- A) perpendicular
- B) intersection but not perpendicular
- C) parallel
- D) the same line

Answers to Geometry - PRACTICE EXAM 2 - FALL 2018

1) Midpoint

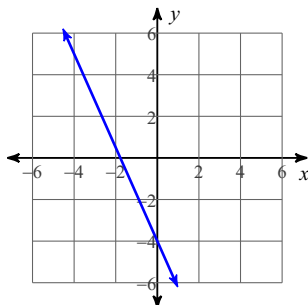
5) 5

9) 7.9

2) Distance

6) (3.568, 2.521)

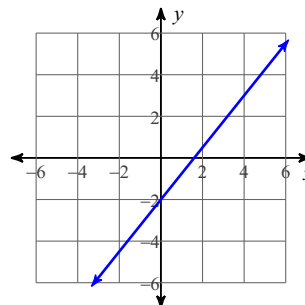
10)



3) Slope

7) (-1.017, 1)

11)



4) -7

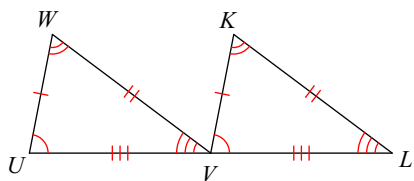
8) 3.9

12) $\frac{1}{2}$

16) right isosceles

20) 12

23)



26) (6.2, 4.5)

30) C

13) 1

17) right isosceles

21) $\angle X$

27) $x = -4$

14) $y = -\frac{4}{3}x - 1$

18) 80°

22) $\triangle BCA \cong \triangle BMK$

24) $\triangle UYW \cong \triangle UYL$

28) 23°

15) $y = 2x + 1$

19) 7

25) C

29) 38°