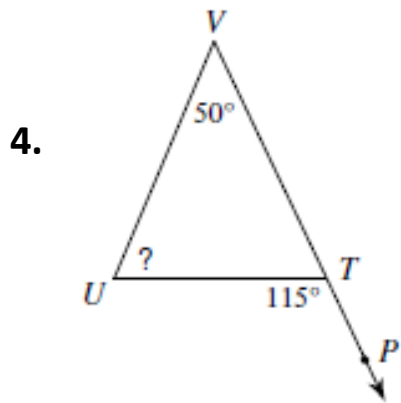
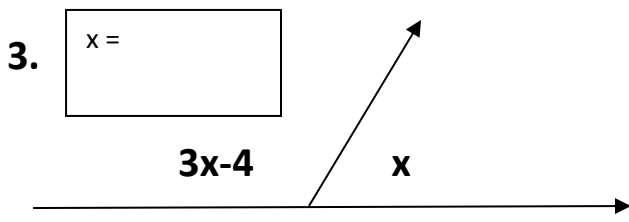
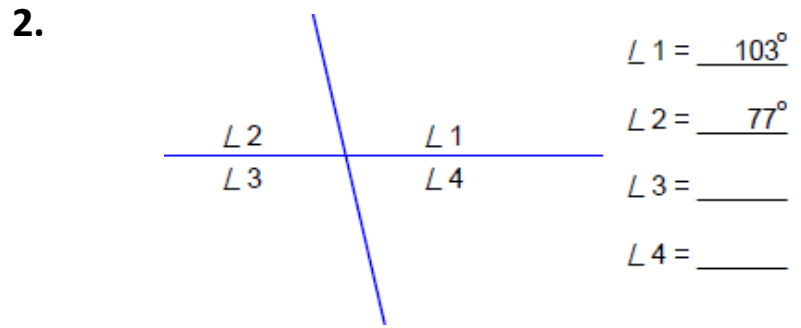
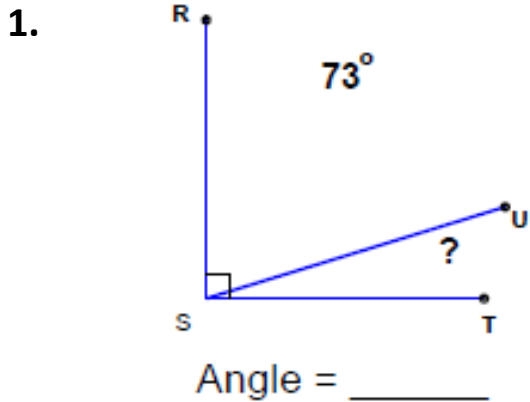


Review – Geometric Properties

Name: _____

Date: _____ Period: _____

Find the missing angle(s).



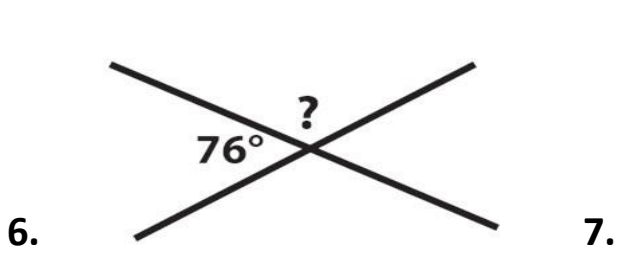
a) Missing angle measure:

b) Name the triangle (based on the angles):

5. Two angles are supplementary. The larger angle exceeds twice the smaller angle by 30°. Find the angles.

Smaller Angle: _____

Larger Angle: _____

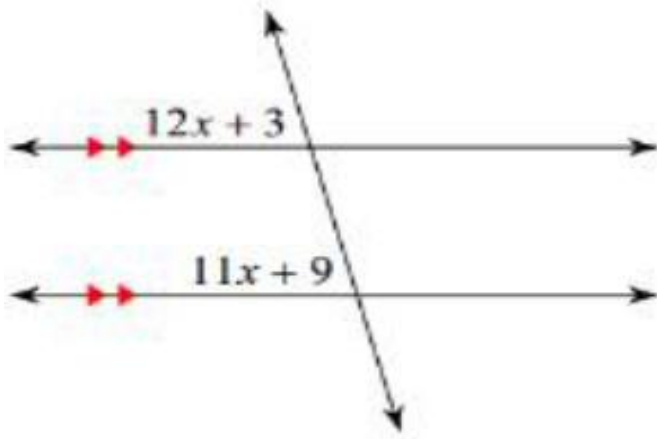


Solve for x.

x =

a) Measure of angle S =

b) Name the triangle (by angles):



8. What is the relationship between these angles?

9. Solve for x. $x =$

10. What is the measure of each angle given?

$12x+3 =$ _____ $11x+9 =$ _____

Use the figure on the right to answer each question below.

11. Angle 1 is called a _____ angle.

- a. Acute b. Obtuse c. Right d. Straight

12. Angle 2 is called a _____ angle.

- a. Acute b. Obtuse c. Right d. Straight

13. Angles 2 and 3 are called _____ angles.

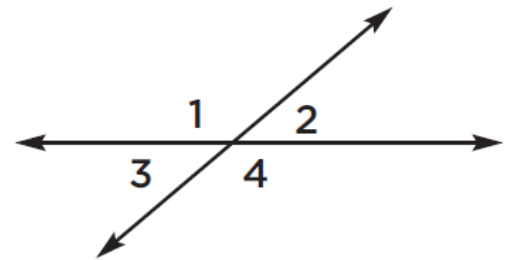
- a. Complementary b. Supplementary c. Vertical d. Adjacent

14. If the measure of angle 1 was 130° , what would the measure of angle 2 be? _____

- a. 130° b. 50° c. 20° d. 90°

15. If the measure of angle 3 was 70° , what would the measure of angle 2 be? _____

- a. 70° b. 20° c. 50° d. 90°



Identify (circle YES or NO) whether the three angles given would create triangle. Give a reason to support your answer.

16. $25^\circ, 75^\circ, 85^\circ$ YES or NO Reason: _____

17. $50^\circ, 30^\circ, 100^\circ$ YES or NO Reason: _____

18. If two sides of a triangle are 1 cm and 3 cm, the third side may be...

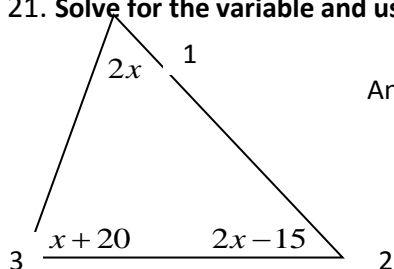
- (a) 5 cm (b) 2 cm (c) 3 cm (d) 4 cm

19. Based on the side lengths, name the triangle from Question 18. _____

20. If the lengths of two sides of a triangle are 5 in and 7 in, the length of the third side may **not** be...

- (a) 12 in (b) 7 in (c) 3 in (d) 5 in

21. Solve for the variable and use it to identify the missing angle measures of each triangle.



Angle 1 = _____ Angle 2 = _____ Angle 3 = _____