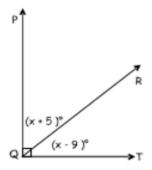
UNIT 2 TEST REVIEW

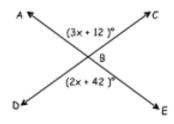
 $\angle 1$ and $\angle 2$ are complementary angles. $\angle 2$ and $\angle 3$ are supplementary angles. Given the measures of $\angle 1$ below, find m $\angle 2$ and m $\angle 3$.

Write an equation to find each value of x. Then, find the measure of each angle.

3.







Relationship: _____

Relationship:

Equation:

Equation:

x = _____

m∠RQT = _____ °

m∠ABD = _____ °

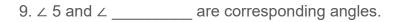
Use the transversal to the right to answer questions 5-11.

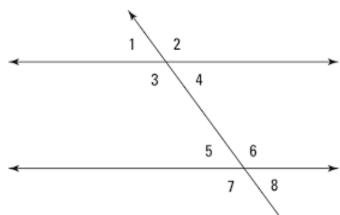












10. If $m \angle 5 = 3x + 1$ and the $m \angle 4 = 7x - 7$. Find x and the $m \angle 5$.

Relationship:

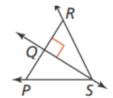
Equation:

11. If $m \angle 1 = 3x - 4$ and the $m \angle 7 = x + 8$. Find x and the $m \angle 7$.

Relationship: _____ Equation: ____

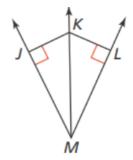
Use the picture below to help you solve questions 12-15.

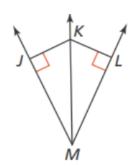
12. If
$$PS = 36$$
, $PQ = 3x + 5$, $QR = 6x - 10$, and $RS = 36$, then $PR = \blacksquare$.



13. If
$$PS = 4x + 8$$
, $PQ = 29$, $RS = 5x - 3$, and $QR = 29$, then $PS = \blacksquare$.

- If JM = 12, LM = 12, 14. and $m \angle JMK = 25$, then $m \angle KML = \blacksquare$.
- 15. If $m \angle JML = 49$, $m \angle JMK = 24.5$, and JK = 17, then $KL = \blacksquare$.





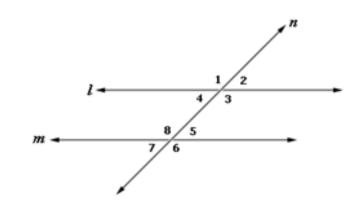
Use the transversal image below for questions #13-15. l is parallel to m

_____ 13. If
$$m \angle 5 = 113^{\circ}$$
, what is $m \angle 3$?

- a. 180° b. 90°
- c. 67°
- d. 113°

____14. If
$$m \angle 4 = 42^\circ$$
, what is $m \angle 7$?

- a. 180°
- b. 90° c. 138°
- d. 42°



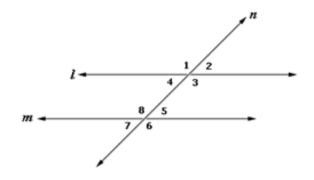
_____ 15. If
$$m \angle 1 = (4x + 3)^\circ$$
, and $m \angle 6 = (3x + 35)^\circ$, find the value of x.

- a. x = 5.23

- b. x = 32 c. x = 38 d. x = 20.29

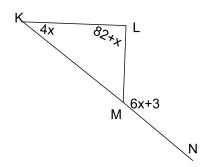
_____ 16. Which of the following answers correctly describe the relationship between angle 3 and angle 8 in the transversal to the right?

- a. They form a vertical pair
- b. They are alternate exterior angles
- c. They are alternate interior angles
- d. They are corresponding angles



- _____ 17. Angles that have a sum of 90°are _____.
 - a. Congruent
- b. Adjacent
- c. Complementary
- d. Supplementary

- _____ 18. Vertical angles are _____.
 - a. Congruent
- b. Adjacent
- c. Complementary
- d. Supplementary
- _____ 19. Find the value of x in the triangle to the right.
 - a. 7.18
- b. 8.64
- c. 7.73
- d. 79



- _ 20. Find the value of x in the triangle to the right.
- a. 6.6
- b. 36.25
- c. 29
- d. 43

