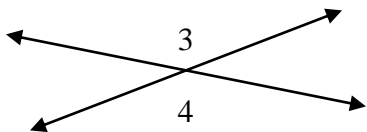


Mid-Chapter Review

1) What do you call $\angle 3$ and $\angle 4$ below? 1) _____

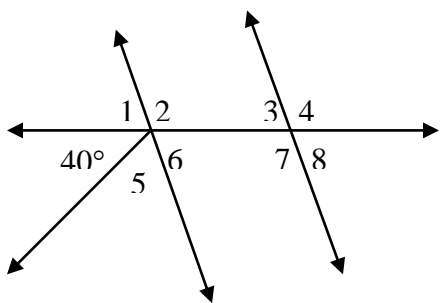


2) True or False. Alternate interior angles are congruent. 2) _____

3) True or False. Alternate exterior angles are congruent. 3) _____

4) True or False. Corresponding angles are congruent. 4) _____

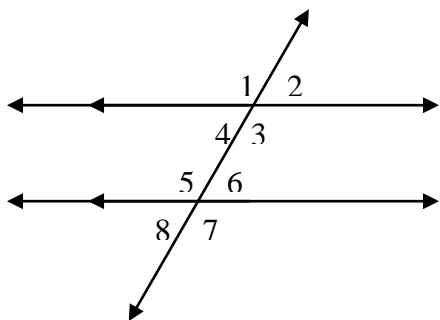
Use the figure below for questions 5 and 6 to find the measures.



5) Find $m\angle 1$ if $m\angle 6 = 60^\circ$.
5) _____

6) Find $m\angle 3$ if $m\angle 6 = 35^\circ$.
6) _____

For 7-10, classify each pair of angles as *alternate interior*, *alternate exterior*, or *corresponding* using the figure below.



7) $\angle 8$ and $\angle 2$
7) _____

8) $\angle 1$ and $\angle 5$
8) _____

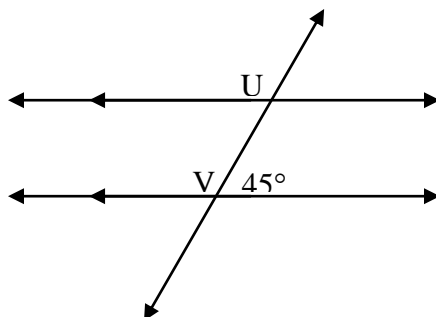
9) $\angle 5$ and $\angle 3$
9) _____

10) $\angle 1$ and $\angle 7$

10) _____

11) Look at the figure below. Classify the relationship between $\angle U$ and $\angle V$. Then, find $m\angle U$.

11) _____



12) What is the sum of the angles in a quadrilateral?

12) _____

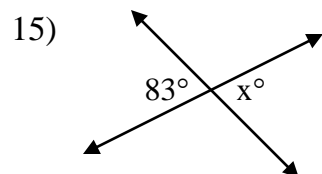
13) What is the sum of the measures of the interior angles of a decagon?

13) _____

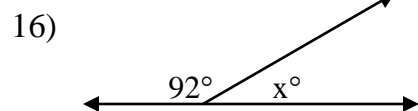
14) Find the measure of one interior angle of a decagon. Round to the nearest two decimal places.

14) _____

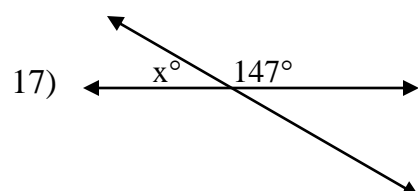
Find the missing value of x in each figure.



15) _____

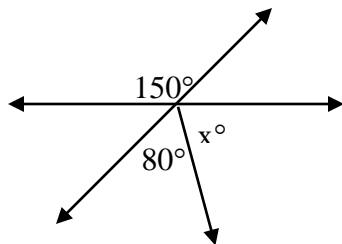


16) _____



17) _____

18)



18) _____

Multiple Choice for 19 and 20.19) Which statement is not true if $\triangle LMN \cong \triangle RST$?

19) _____

- A. $MN \cong ST$
- B. $\angle T \cong \angle M$
- C. $LM \cong RS$
- D. $\angle L \cong \angle R$

20) If $\triangle GHI \cong \triangle JKL$, which of the following is not true?

20) _____

- A. $\angle G \cong \angle K$
- B. $GI \cong JL$
- C. $\angle H \cong \angle K$
- D. $HI \cong \angle KL$

Find the sum of the measures of the interior angles of each polygon.

21) nonagon

21) _____

22) 12-gon

22) _____

23) 30-gon

23) _____

Find the measure of one interior angle of a:

24) nonagon

24) _____

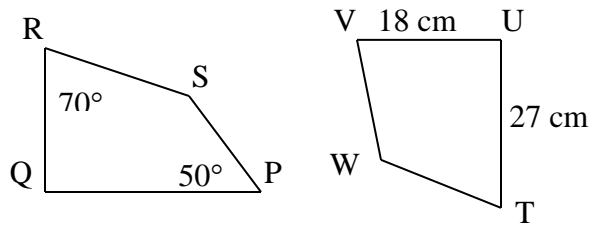
25) 12-gon

25) _____

26) 30-gon

26) _____

In the figure, quadrilateral PQRS is congruent to quadrilateral TUVW. Find each measure.



27) $PQ =$ _____

28) $m\angle U =$ _____

29) $QR =$ _____

30) $m\angle V =$ _____