

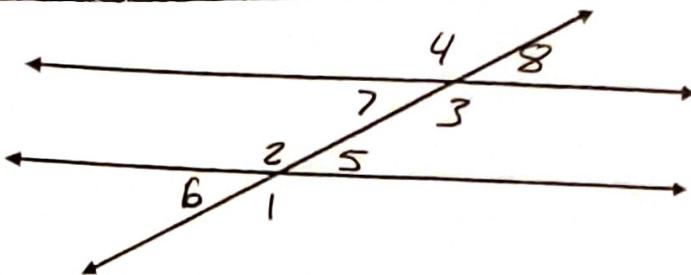
Unit 3 TEST Review

Name: _____

Classify the following angles as alternate interior/exterior angles, same-side interior angles, or corresponding angles. (Use the figure to the right)

1.) $\angle 1$ and $\angle 4$

2.) $\angle 4$ and $\angle 2$



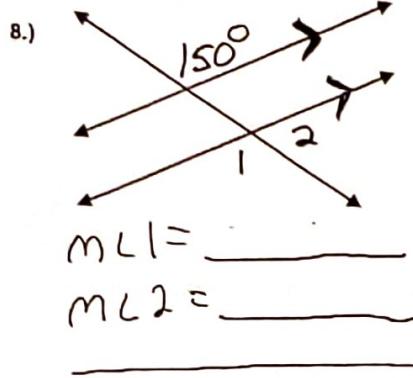
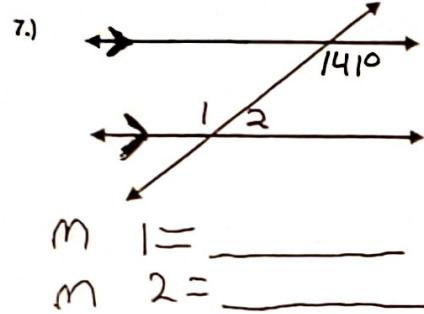
3.) $\angle 6$ and $\angle 7$

4.) $\angle 3$ and $\angle 2$

5.) $\angle 3$ and $\angle 7$

6.) $\angle 5$ and $\angle 8$

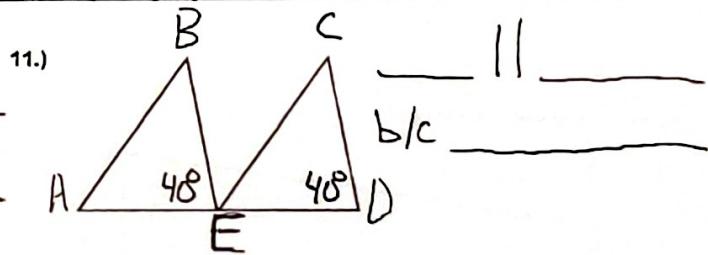
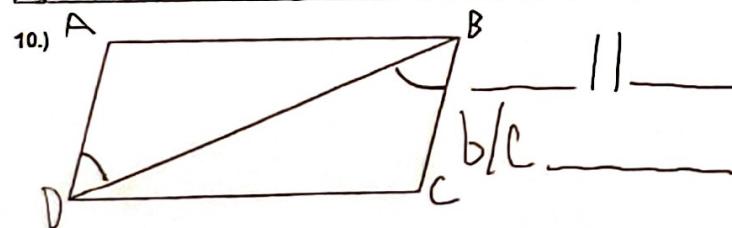
Find the missing angle(s), and then justify your answer by stating whether you used the Corresponding Angles Postulate, Alternate Interior/Exterior Angles Theorem, or Same-Side Interior Angles Theorem.



9.)

$x =$ _____, $11x - 30 =$ _____
 $3x - 28 =$ _____

Which lines or segments are parallel? Justify your answer by using the Converse of the Corresponding Angles Postulate, Converse of the Alternate Interior Angles Theorem, or Converse of the Same-Side Interior Angles Theorem.



Find the value of x for which $l \parallel m$.

12.)

$X =$ _____
 $3x - 20 =$ _____
 $2x + 60 =$ _____

13.)

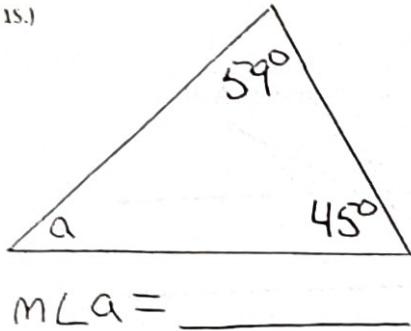
$X =$ _____
 $4x + 10 =$ _____
 $2x + 20 =$ _____

14.)

$X =$ _____
 $2x + 110 =$ _____

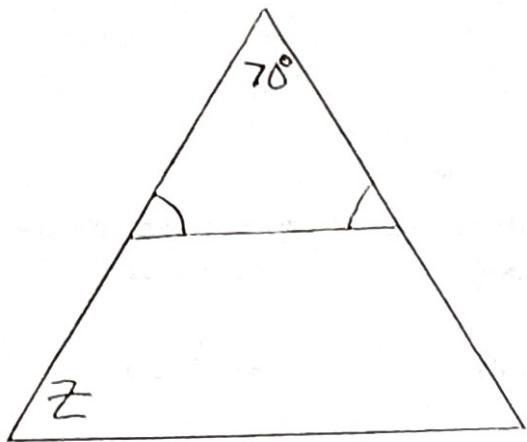
Find the missing angles.

15.)



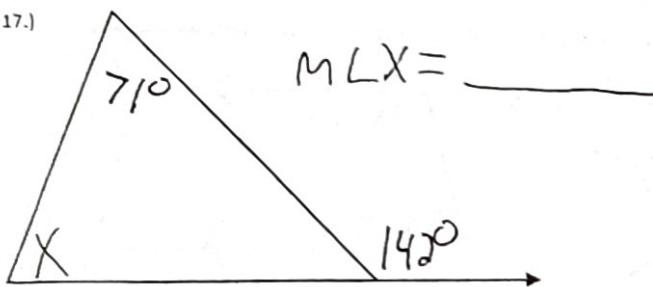
$$m\angle \alpha = \underline{\hspace{2cm}}$$

16.)



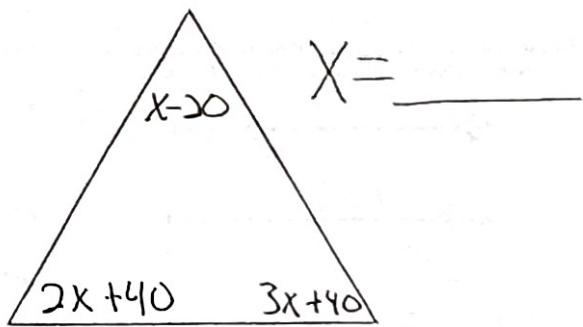
$$m\angle Z = \underline{\hspace{2cm}}$$

17.)



$$m\angle X = \underline{\hspace{2cm}}$$

18.)



Find the sum of the measures of interior angles. Find the measure of interior and exterior angles if the polygon was REGULAR.

19.) Nonagon

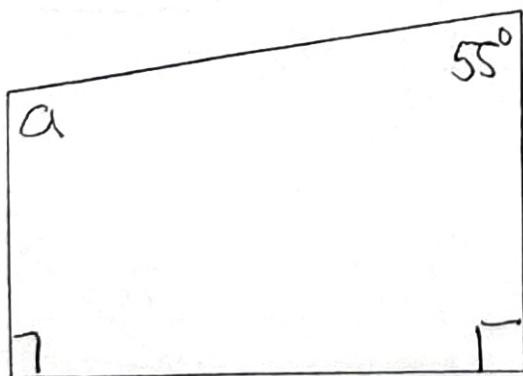
20.) Dodecagon

21.) 50-GON

22.) 100-GON

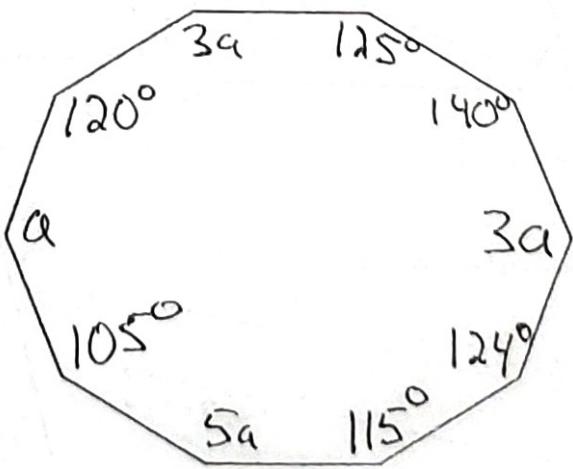
Find the missing ANGLE MEASURES.

23.)



$$\alpha = \underline{\hspace{2cm}}$$

24.)



$$\alpha = \underline{\hspace{2cm}}$$