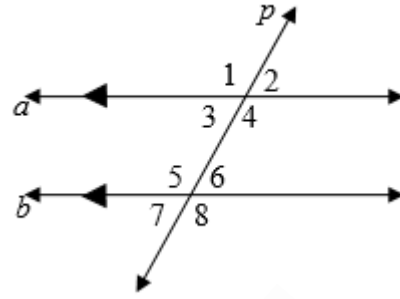


# MIT3 TEST REVIEW: ANGLES AND TRIANGLES

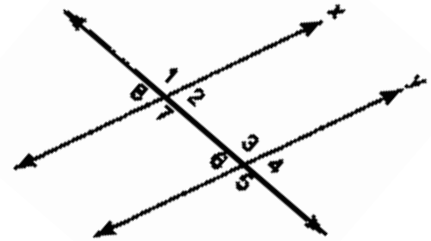
**1a: Use the provided figure to answer the following questions.**

- $\angle 3$  and  $\angle$  \_\_\_\_\_ are supplementary angles
- $\angle 7$  and  $\angle$  \_\_\_\_\_ are vertical angles
- $\angle 3$  and  $\angle$  \_\_\_\_\_ are corresponding angles
- $\angle 5$  and  $\angle$  \_\_\_\_\_ are alternate interior angles
- $\angle 1$  and  $\angle$  \_\_\_\_\_ are alternate exterior angles
- $\angle 4$  and  $\angle$  \_\_\_\_\_ are same side interior angles

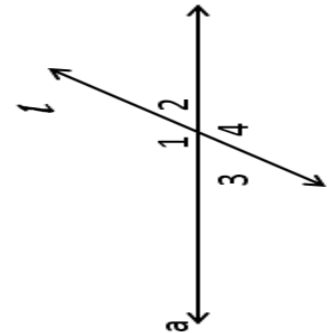


**1b. Use the provided figure to answer the following questions**

- $\angle 2$  and  $\angle$  \_\_\_\_\_ are alternate interior angles.
- $\angle 8$  and  $\angle$  \_\_\_\_\_ are corresponding angles.
- $\angle 5$  and  $\angle$  \_\_\_\_\_ are alternate exterior angles.
- $\angle 6$  and  $\angle$  \_\_\_\_\_ are vertical angles.
- $\angle 2$  and  $\angle 7$  are \_\_\_\_\_ angles.
- $\angle 6$  and  $\angle 7$  are \_\_\_\_\_ angles.



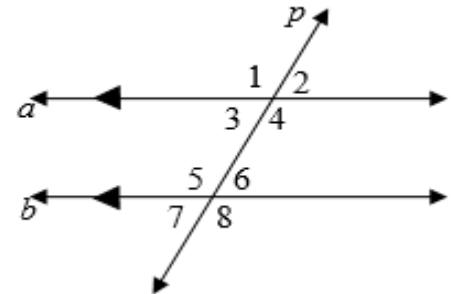
**2. If  $m\angle 4 = 122^\circ$ , find the measure of angle 2. State the reason of how you knew this angle. (use appropriate vocabulary terms.)**



**3. a. Fill in each of the missing angles on the provided figure given that  $\angle 1 = 130^\circ$ .**

**b. How did you know the measure of  $\angle 4$ ? (what angle...use appropriate vocabulary)**

**c. What is the relationship between  $\angle 1$  and  $\angle 2$ ?**

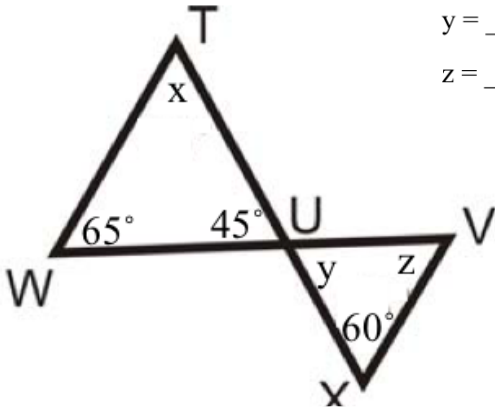


4. Use the diagram below: Find the missing angles.

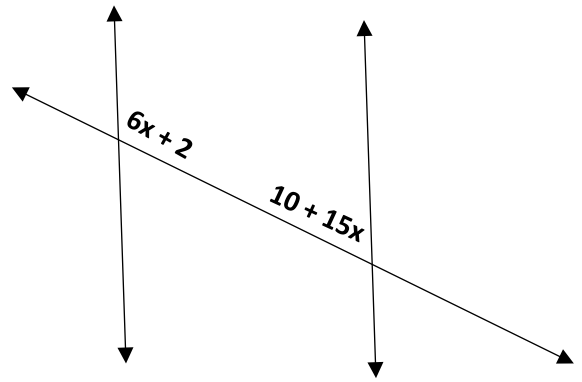
$x =$  \_\_\_\_\_

$y =$  \_\_\_\_\_

$z =$  \_\_\_\_\_



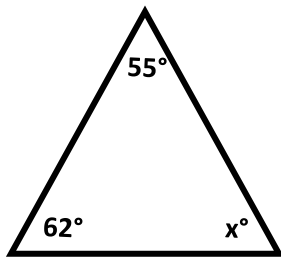
5.



Equation: \_\_\_\_\_

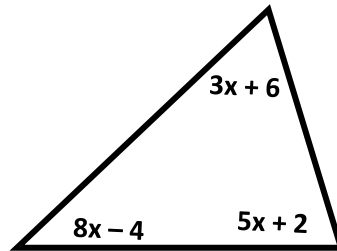
a.  $x =$  \_\_\_\_ b. Missing angles = \_\_\_\_ and \_\_\_\_

6.



a.  $x =$  \_\_\_\_ Equation: \_\_\_\_\_

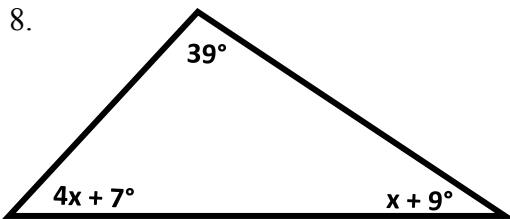
7.



a. Missing angles = \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_

Equation: \_\_\_\_\_

8.



a.  $x =$  \_\_\_\_ b. Missing angles = \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_

Equation: \_\_\_\_\_

9.



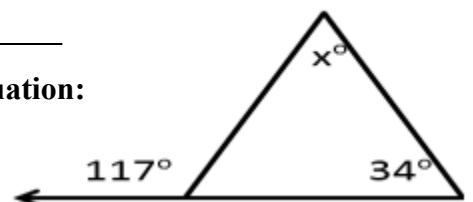
$x =$  \_\_\_\_

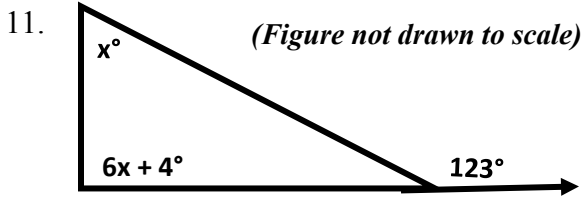
Equation: \_\_\_\_\_

10.

$x =$  \_\_\_\_

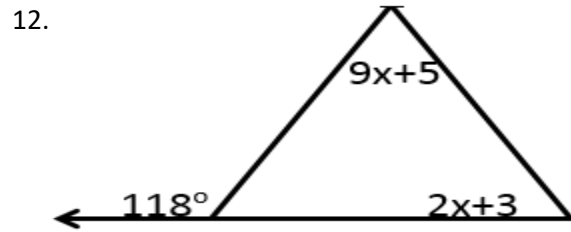
Equation: \_\_\_\_\_





Equation: \_\_\_\_\_

a.  $x =$  \_\_\_\_\_ b. Missing angles = \_\_\_\_\_ and \_\_\_\_\_



Equation: \_\_\_\_\_

a.  $x =$  \_\_\_\_\_ b. Missing angles = \_\_\_\_\_ and \_\_\_\_\_

12. Do the following angles give you a congruent measure or do they add up to 180°?

Alternate Interior: \_\_\_\_\_

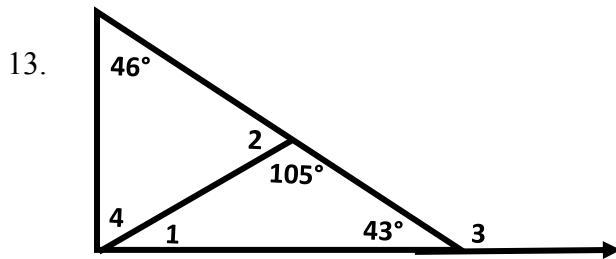
Supplementary: \_\_\_\_\_

Corresponding: \_\_\_\_\_

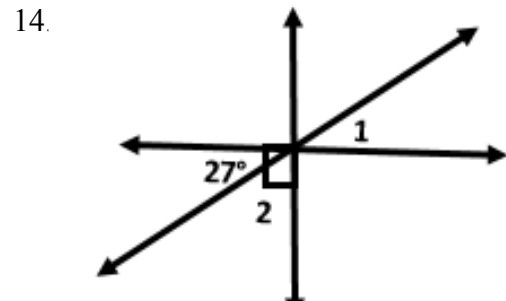
Vertical: \_\_\_\_\_

Same Side Interior: \_\_\_\_\_

Alternate Exterior: \_\_\_\_\_



$m\angle 1 =$        $m\angle 2 =$        $m\angle 3 =$        $m\angle 4 =$



$m\angle 1 =$        $m\angle 2 =$



