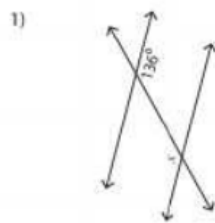


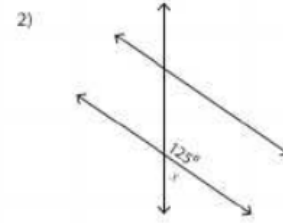
Angles that are in the same relative position with respect to each parallel line and the transversal are called **Corresponding Angles**. In the diagram on the previous page angles 1 and 5 are corresponding angles.

2. Examine the diagram you drew for Part C of Problems 1.
  - a. Name 3 other pairs of corresponding angles besides angles 1 and 5.
  - b. Suppose  $m\angle 1 = 123^\circ$  (read the measure of angle 1 is 123 degrees.) Find the measure of as many other angles as you can in your diagram.

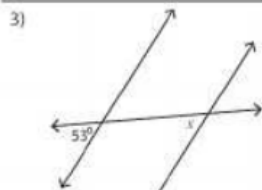
Assuming all lines that look parallel are parallel.  
Find the value of  $x$ .



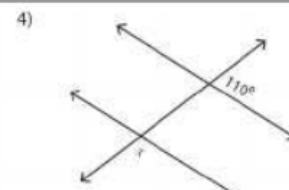
$x = 136$  Alternate Interior



$x = 55$



$x = 53$



$x = 70^\circ$

$$2x - 7 = 113$$

$$2x - 7 + 67 = 180$$

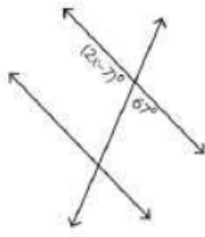
$$2x + 60 = 180$$

$$-60 = -60$$

$$\frac{2x}{2} = \frac{120}{2}$$

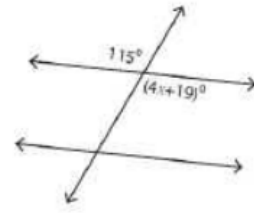
$$x = 60$$

5)



$$x = \underline{60}$$

6)



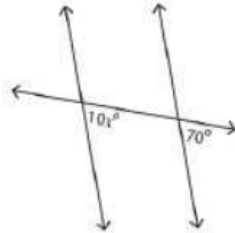
$$x = \underline{24}$$

$$4x + 19 = 115$$

$$4x = 96$$

$$x = 24$$

7)

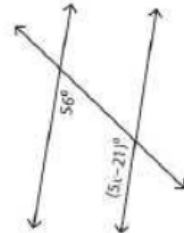


$$10x = 70$$

$$x = 7$$

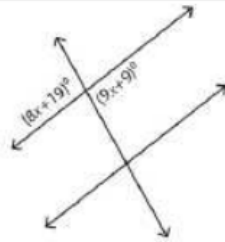
$$x = \underline{7}$$

8)



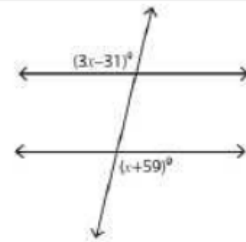
$$x = \underline{\quad}$$

1)



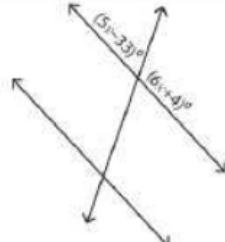
$$x = \underline{\quad}$$

2)



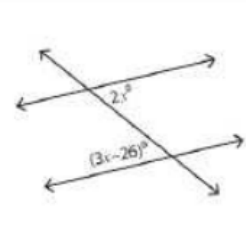
$$x = \underline{\quad}$$

3)



$$x = \underline{\quad}$$

4)



$$x = \underline{\quad}$$