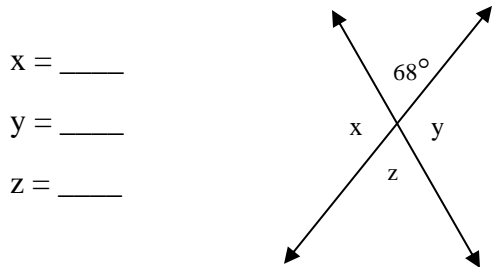


Name: _____

Find the value of x in each figure:

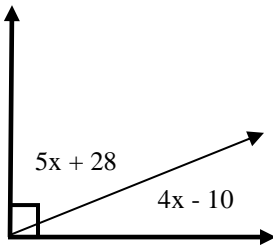
1. Find the measures of angles x, y, and z in the figure below



2. The measure of angle D is 37 degrees

- a. Angle D and angle E are complementary
Find the measure of angle E _____
- b. Angle D and angle G are supplementary
Find the measure of angle G _____

3. Find the value of x in the figure below



4. $\angle C$ and $\angle D$ are supplementary

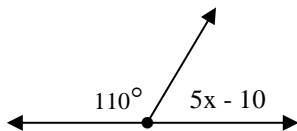
$$m\angle C = 2x - 35$$

$$m\angle D = 4x - 25$$

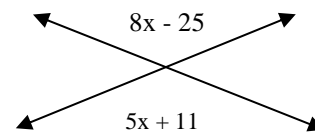
Find x.

Find the value of x in each figure:

- 5.



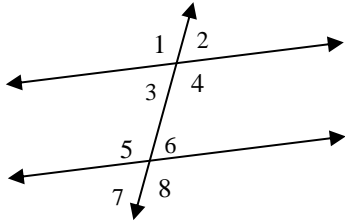
- 6.



For problems 7 and 8

Name each pair of angles (corresponding, alternate interior, same-side interior, or alternate exterior):

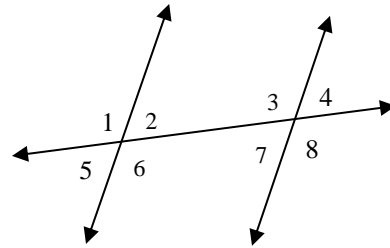
7.



Angles 3 and 6: _____

Angles 1 and 5: _____

8.

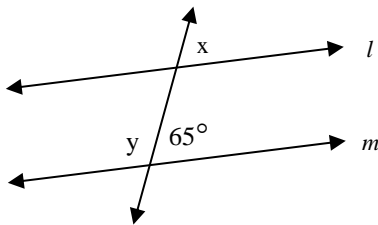


Angles 1 and 8: _____

Angles 6 and 7: _____

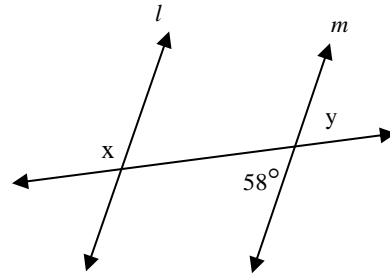
9. Given lines l and m are parallel

Find the measures of x and y



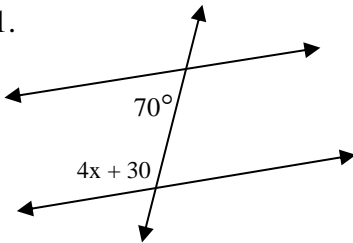
10. Given lines l and m are parallel

Find the measures of x and y

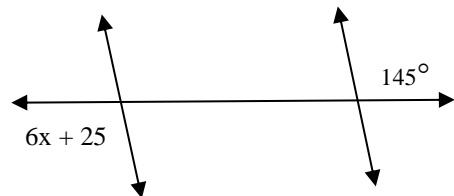


Find the value of x in each figure given that the lines are parallel:

11.

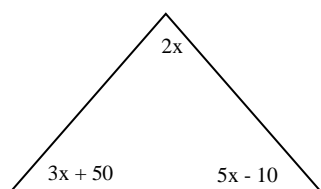


12.

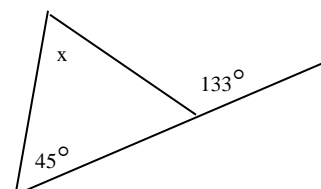


Find the value of x in each triangle

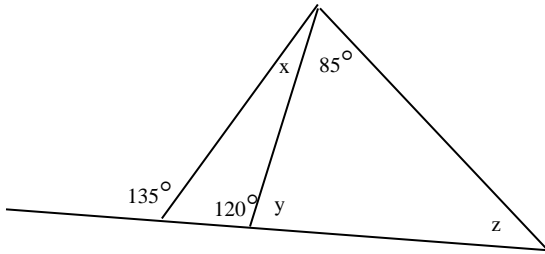
13.



14.

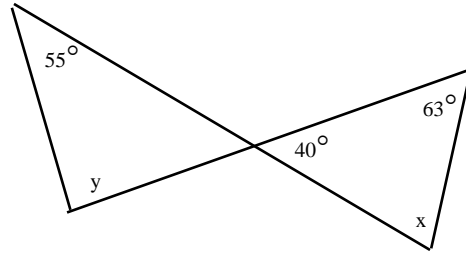


15. Find the values of x , y and z in the figure



$x = \underline{\hspace{2cm}}$, $y = \underline{\hspace{2cm}}$, $z = \underline{\hspace{2cm}}$

16. Find the values of x and y in the figure



$x = \underline{\hspace{2cm}}$, $y = \underline{\hspace{2cm}}$

Review:

17. Solve for x

$$(6^{2x+9})(6^{5x-4}) = 6^{19}$$

18. Find an exponential function for the function given in the table

x	0	1	2	3
$f(x)$	80	40	20	10

19. Find the distance between the points

$(5, -9)$ and $(-3, -5)$

20. Use inductive reasoning to find the next two values in the sequence

50, 45, 39, 32, $\underline{\hspace{1cm}}$, $\underline{\hspace{1cm}}$