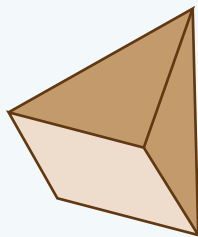
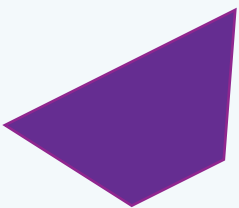
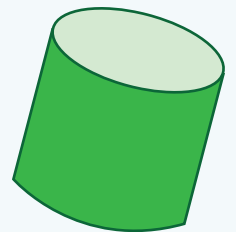
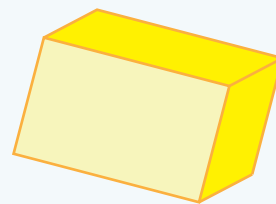
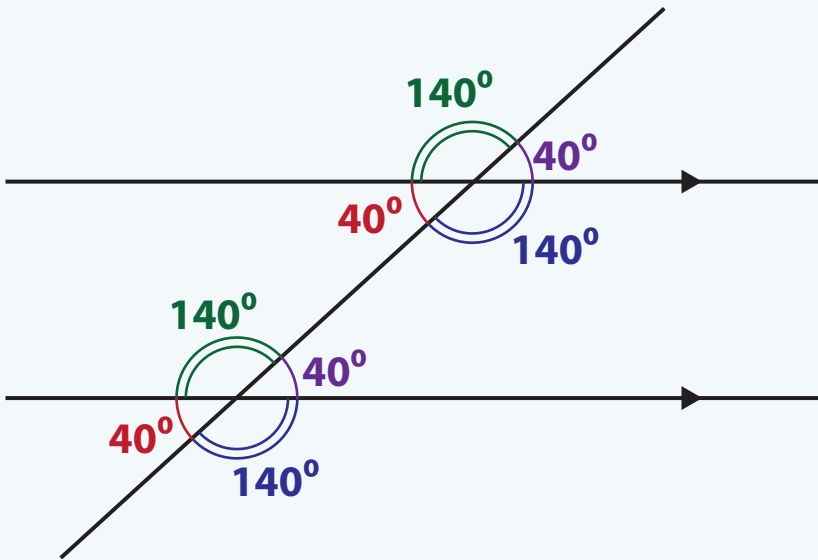
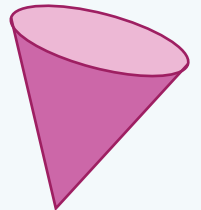
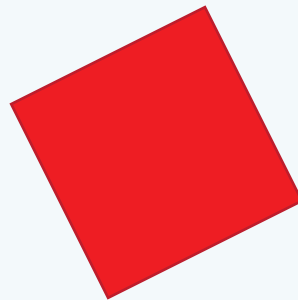
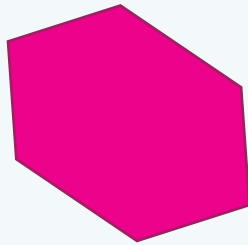
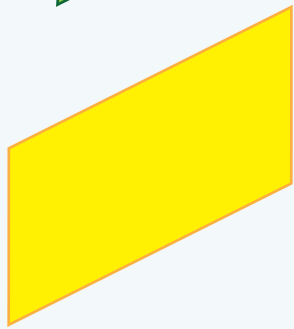
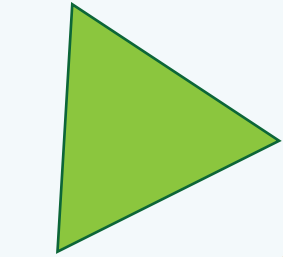
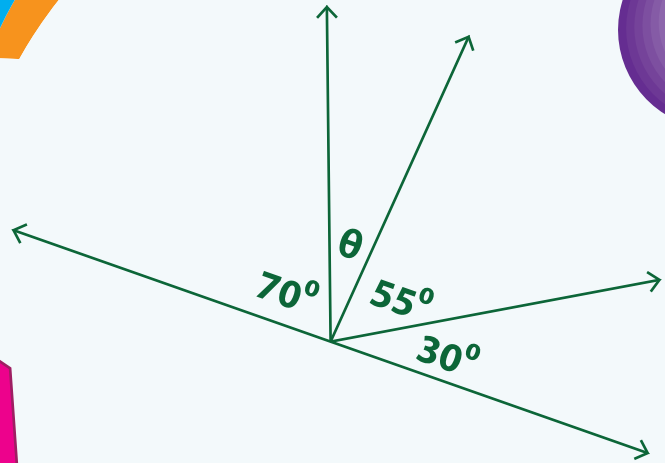
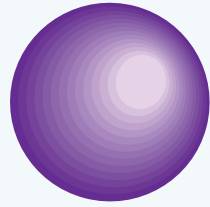


# Geometry

## Volume-1

7th  
Grade



# Workbook 1

## Drawing Shapes

Draw each shape:



Square



Rectangle



Circle



Triangle



Parallelogram



Trapezoid

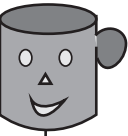


Pentagon

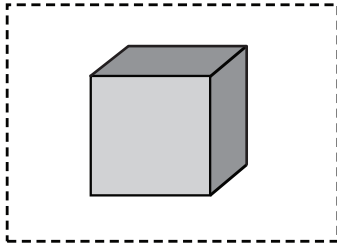
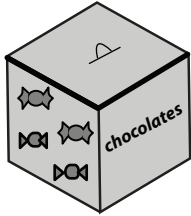


Hexagon

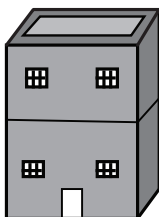
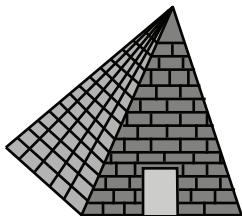
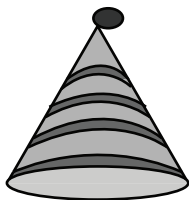
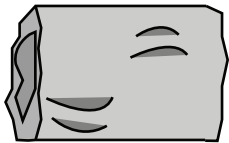
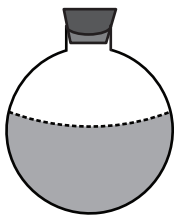
# 3D Shapes and Objects



Draw and label the solid shape of each object.

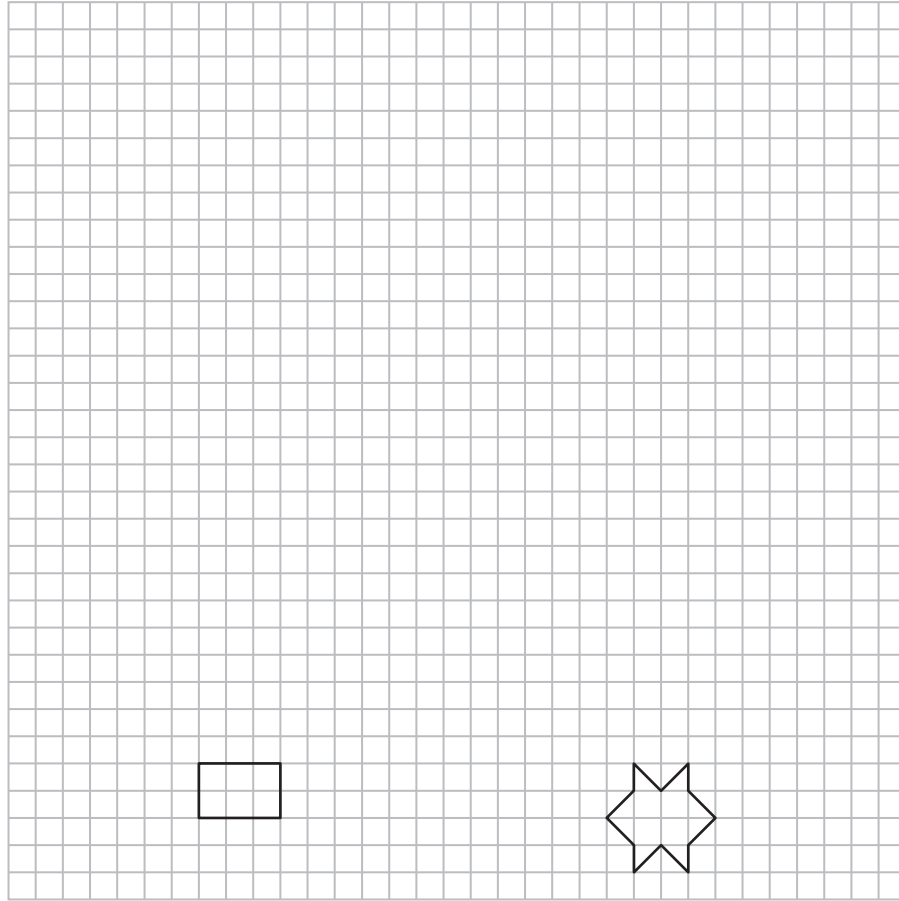


Cube

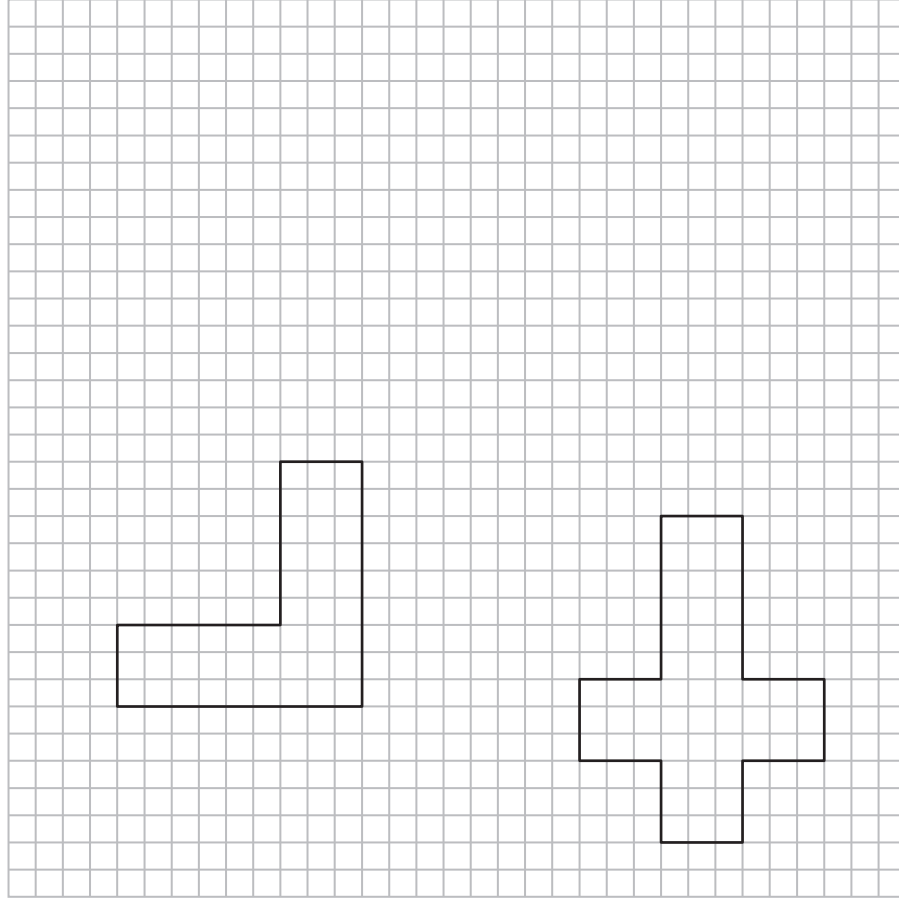


# Enlarge / Reduce

1) Enlarge the shapes using the scale factor 1 : 2.

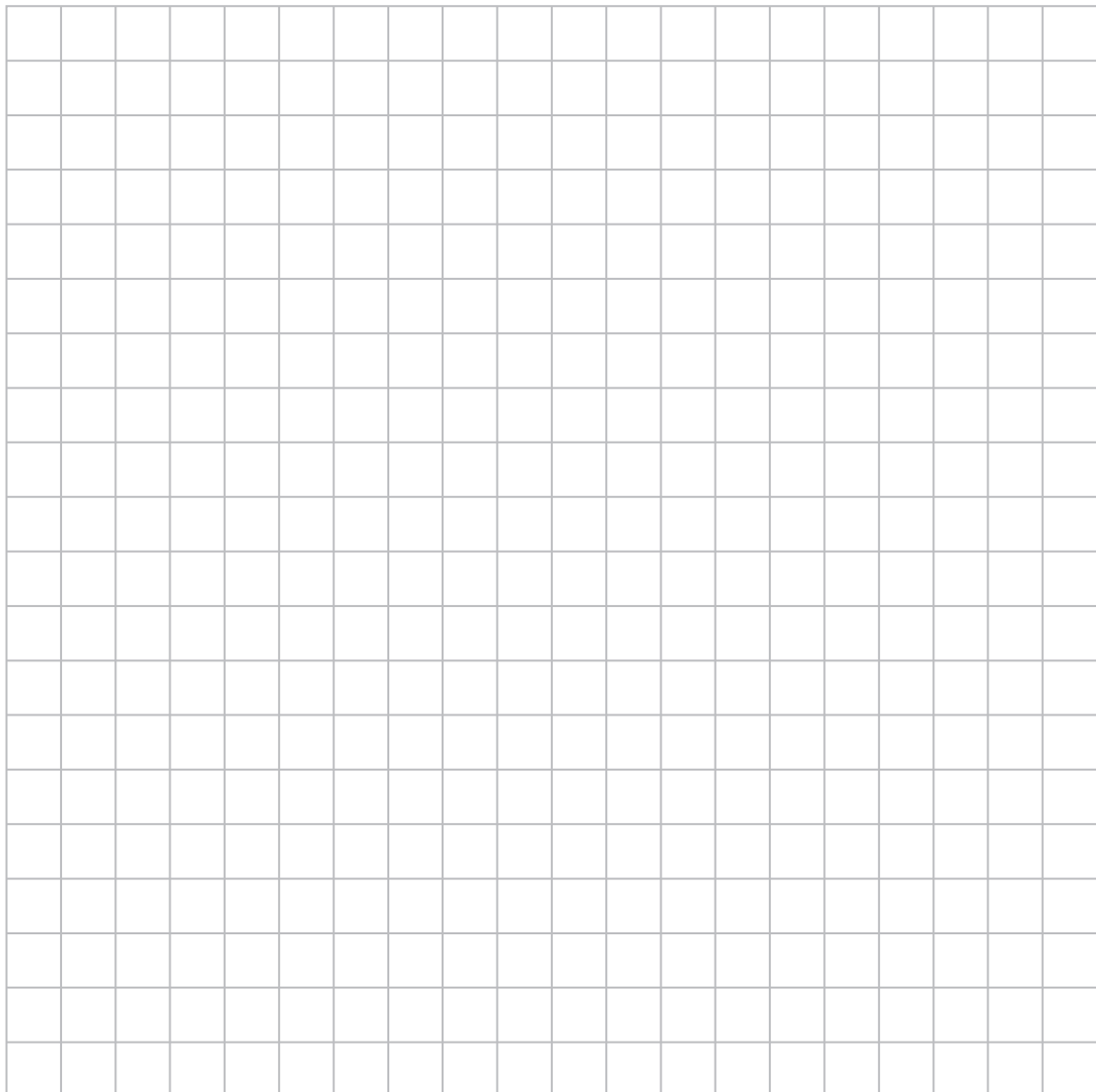
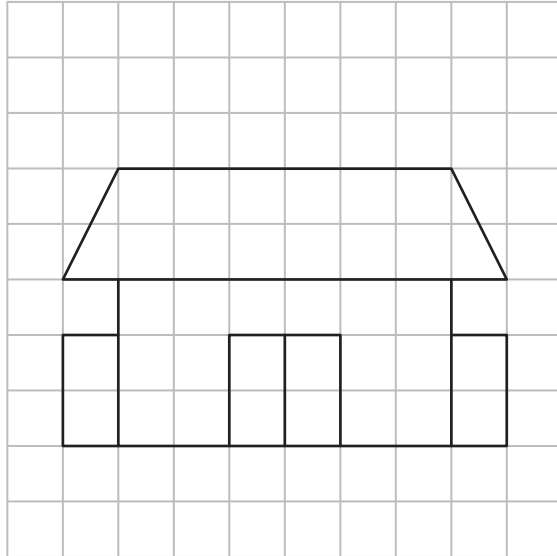


2) Reduce the shapes using the scale factor 3 : 1.



# Enlarge / Reduce

Enlarge the image using the scale factor of 2.



## Triangle Inequality Theorem

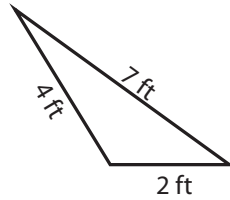
Applying triangle inequality theorem, identify whether the triangle is possible or not possible with the given measures.

1)



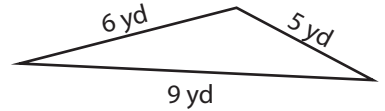
\_\_\_\_\_

2)



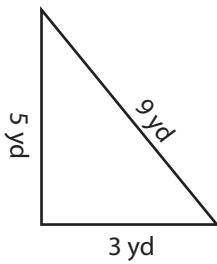
\_\_\_\_\_

3)



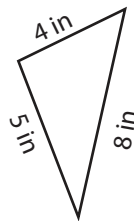
\_\_\_\_\_

4)



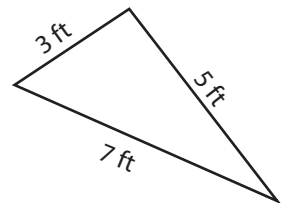
\_\_\_\_\_

5)



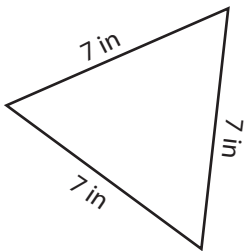
\_\_\_\_\_

6)



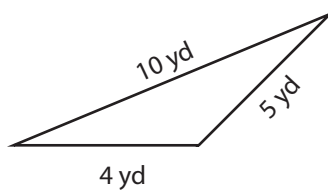
\_\_\_\_\_

7)



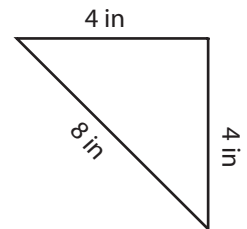
\_\_\_\_\_

8)



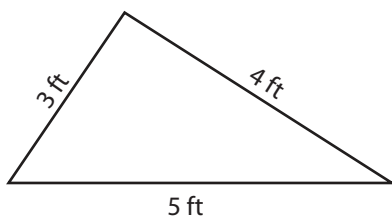
\_\_\_\_\_

9)



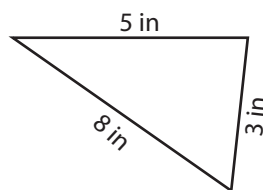
\_\_\_\_\_

10)



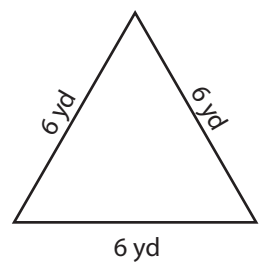
\_\_\_\_\_

11)



\_\_\_\_\_

12)



\_\_\_\_\_

Pages 6 to 18 are available only for members.

Subscribe for unrestricted access to  
200+ workbooks and 30,000+ worksheets for  
just **\$19.95/year.**

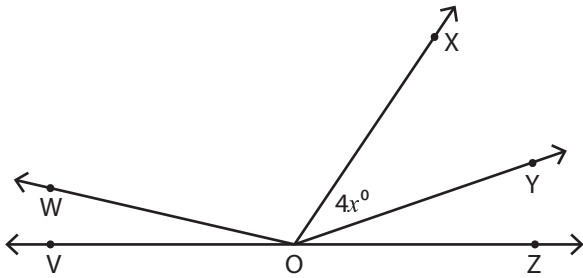
Scroll down for additional free pages.

# Angles in a Straight Line

M

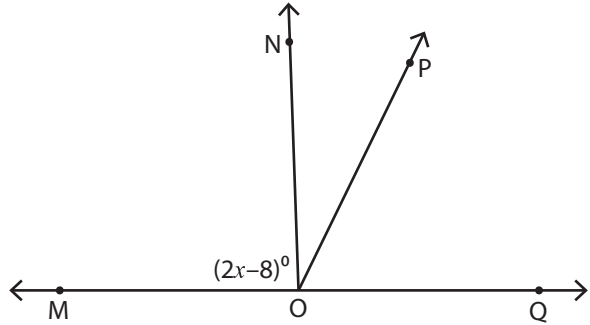
Using the given information, find the value of  $x$  and the unknown angle in each problem.

1)



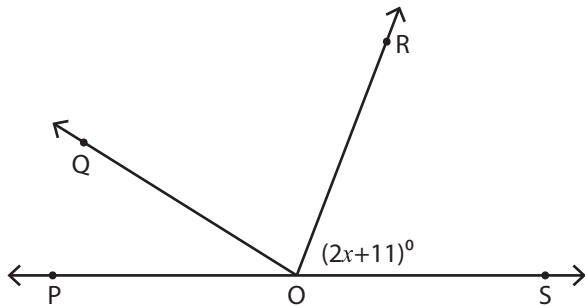
$\angle WOX = 110^\circ$        $x = \underline{\hspace{2cm}}$   
 $\angle YOZ = 20^\circ$        $\angle XOY = \underline{\hspace{2cm}}$   
 $\angle VOW = 14^\circ$

2)



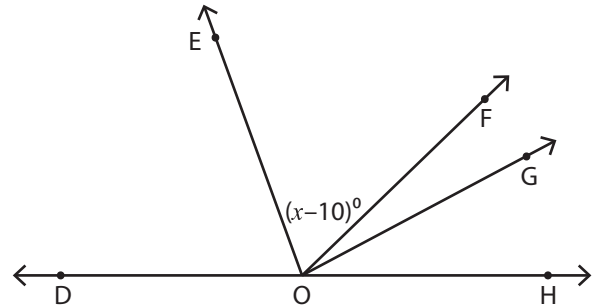
$\angle PON = 28^\circ$        $x = \underline{\hspace{2cm}}$   
 $\angle POQ = 64^\circ$        $\angle MOP = \underline{\hspace{2cm}}$

3)



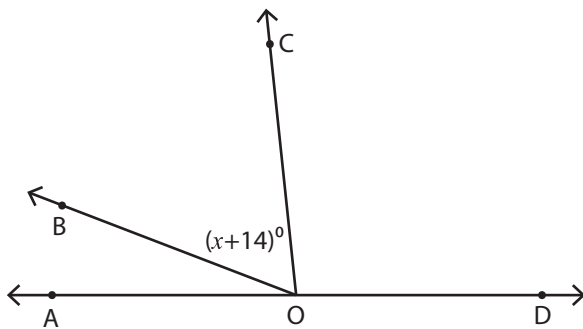
$\angle POQ = 32^\circ$        $x = \underline{\hspace{2cm}}$   
 $\angle ROQ = 79^\circ$        $\angle QOS = \underline{\hspace{2cm}}$

4)



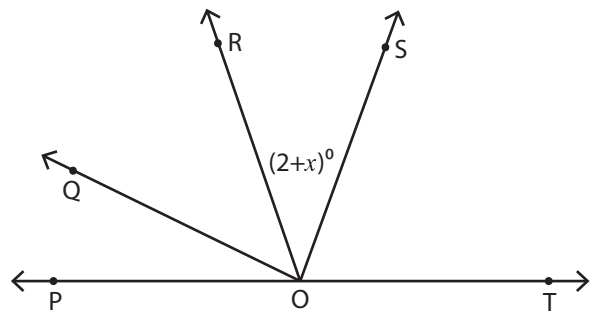
$\angle DOE = 70^\circ$        $x = \underline{\hspace{2cm}}$   
 $\angle FOG = 17^\circ$        $\angle EOG = \underline{\hspace{2cm}}$   
 $\angle GOH = 28^\circ$

5)



$\angle DOC = 96^\circ$        $x = \underline{\hspace{2cm}}$   
 $\angle AOB = 21^\circ$        $\angle AOC = \underline{\hspace{2cm}}$

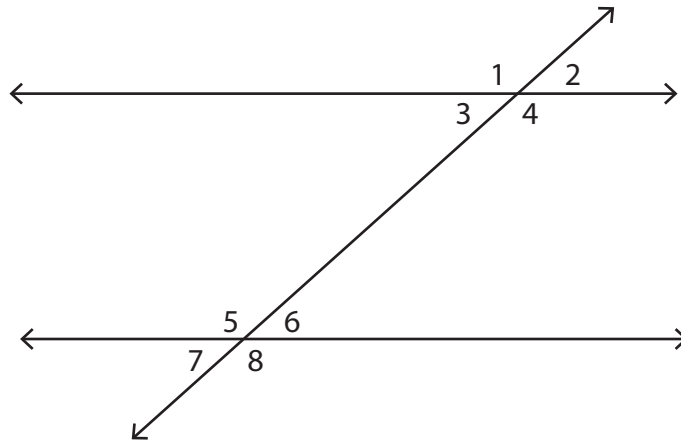
6)



$\angle POQ = 21^\circ$        $x = \underline{\hspace{2cm}}$   
 $\angle QOR = 45^\circ$        $\angle ROS = \underline{\hspace{2cm}}$   
 $\angle SOT = 70^\circ$

## Supplementary & Congruent Angles

Fill up the blanks with either supplementary or congruent angles.



- 1)  $\angle 1$  and  $\angle 2$  are \_\_\_\_\_
- 2)  $\angle 3$  and  $\angle 7$  are \_\_\_\_\_
- 3)  $\angle 2$  and  $\angle 6$  are \_\_\_\_\_
- 4)  $\angle 2$  and  $\angle 8$  are \_\_\_\_\_
- 5)  $\angle 8$  and  $\angle 4$  are \_\_\_\_\_
- 6)  $\angle 5$  and  $\angle 7$  are \_\_\_\_\_

7) If  $m\angle 3 = 40^\circ$ , find the measure of  $\angle 4$ .

\_\_\_\_\_

8) If  $m\angle 2 = 40^\circ$ , find the measure of  $\angle 6$ .

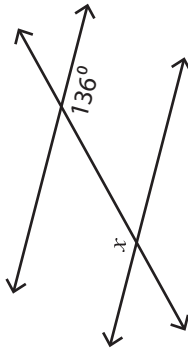
\_\_\_\_\_

# Angles in Transversal

E

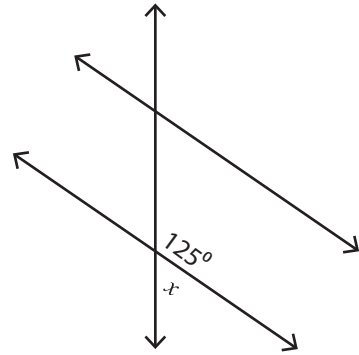
Find the value of  $x$ .

1)



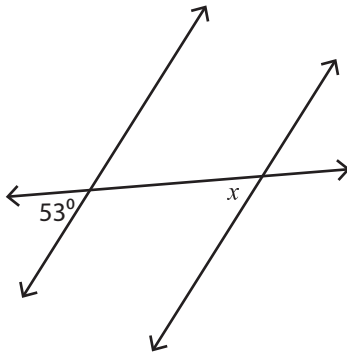
$x =$  \_\_\_\_\_

2)



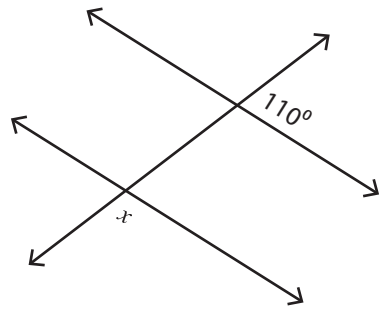
$x =$  \_\_\_\_\_

3)



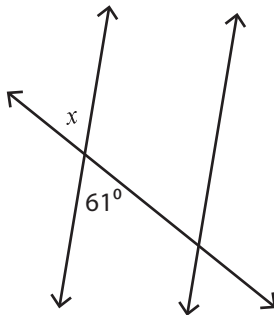
$x =$  \_\_\_\_\_

4)



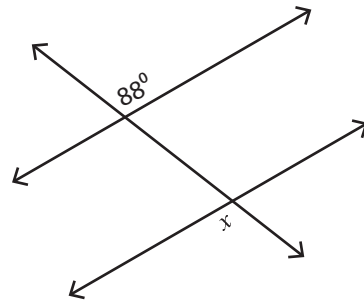
$x =$  \_\_\_\_\_

5)



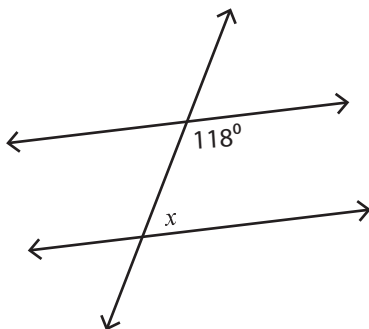
$x =$  \_\_\_\_\_

6)



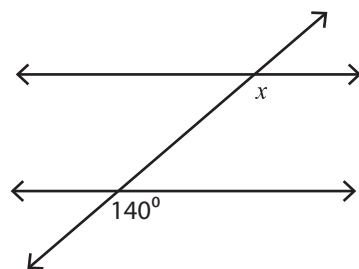
$x =$  \_\_\_\_\_

7)



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

8)



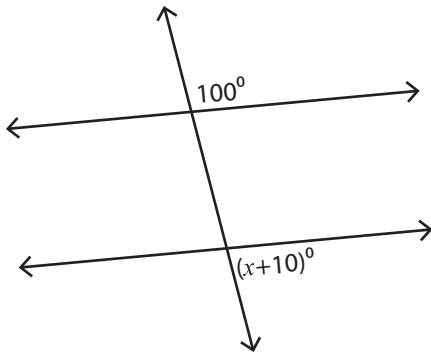
$x =$  \_\_\_\_\_

# Angles in Transversal

M

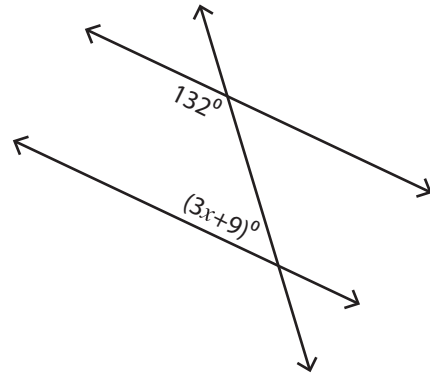
Find the value of  $x$ .

1)



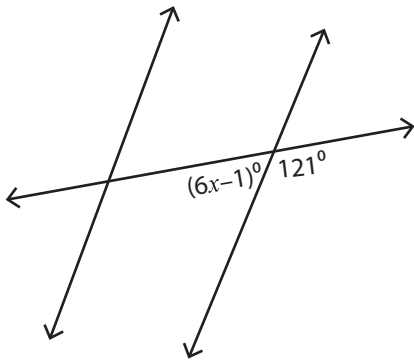
$x = \underline{\hspace{2cm}}$

2)



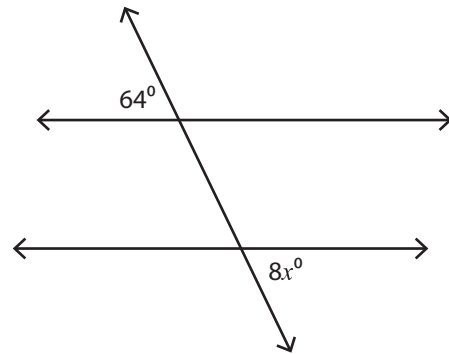
$x = \underline{\hspace{2cm}}$

3)



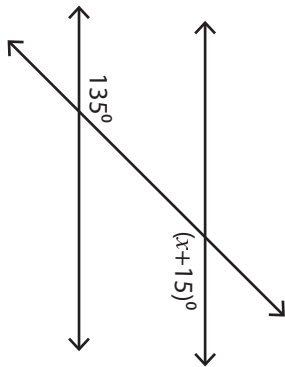
$x = \underline{\hspace{2cm}}$

4)



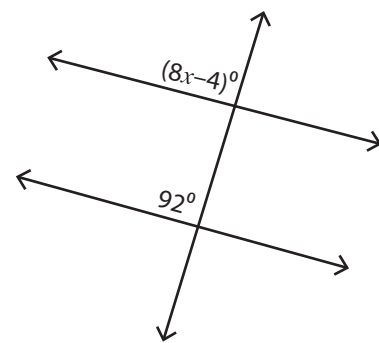
$x = \underline{\hspace{2cm}}$

5)



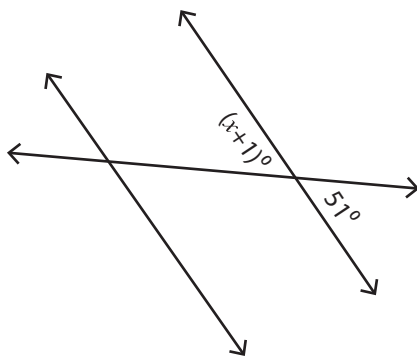
$x = \underline{\hspace{2cm}}$

6)



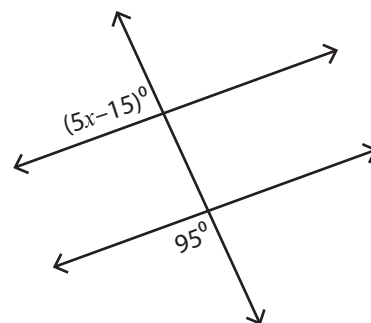
$x = \underline{\hspace{2cm}}$

7)



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

8)



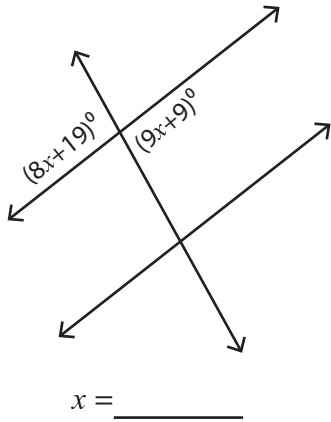
$x = \underline{\hspace{2cm}}$

# Angles in Transversal

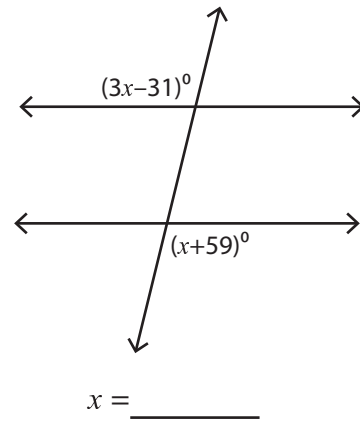
D

Find the value of  $x$ .

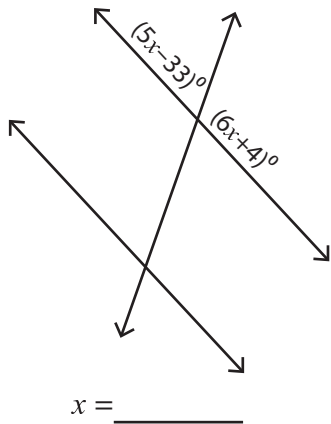
1)



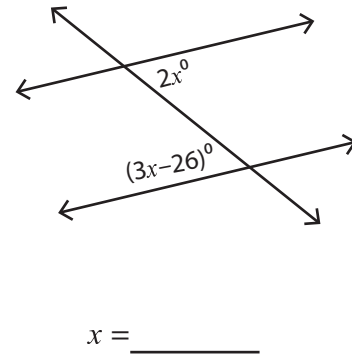
2)



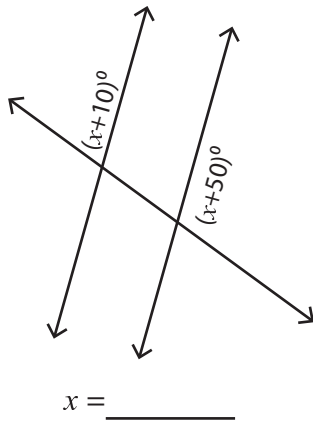
3)



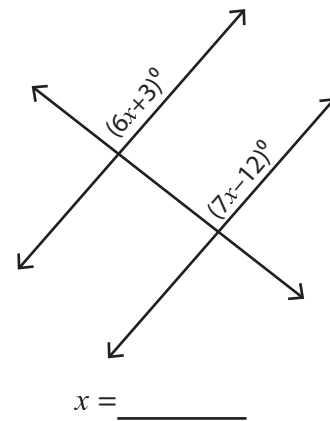
4)



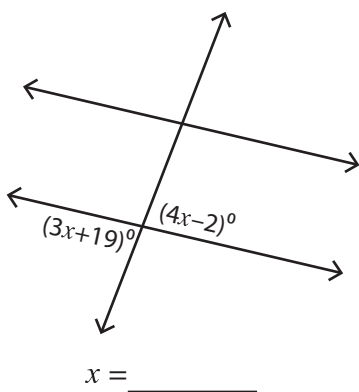
5)



6)



7)



8)

