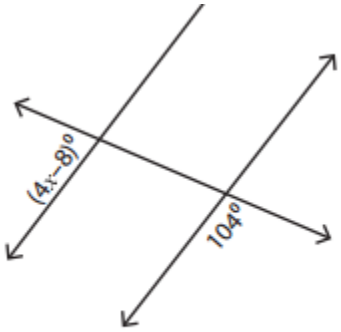
Chapter 3 Study Guide

Section 3-1

Angle relationships

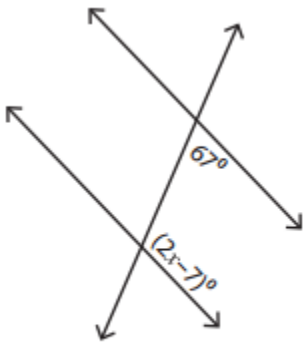
Name the angle relationship and solve for x.

1)



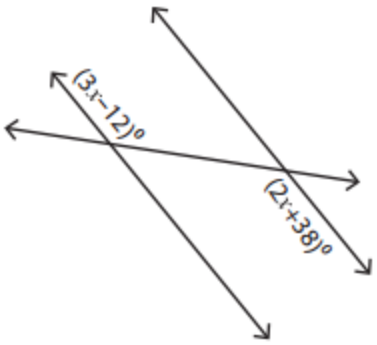
$x =$ _____

2)



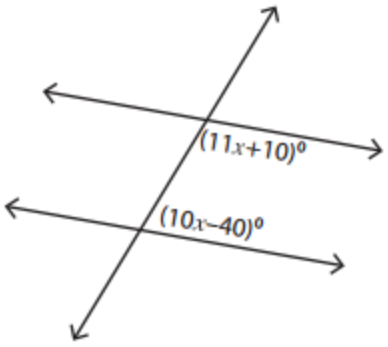
$x =$ _____

3)



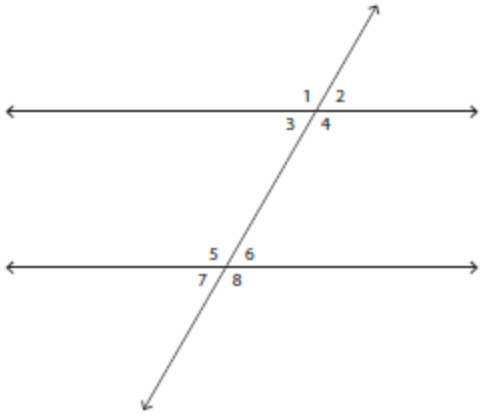
$x =$ _____

4)



$x =$ _____

5) Write the angle relationship for each pair of angles.



1) ∠1 and ∠8 are _____

2) ∠4 and ∠6 are _____

3) ∠3 and ∠5 are _____

4) ∠2 and ∠7 are _____

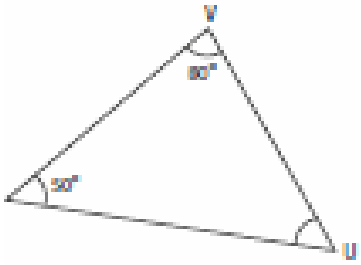
5) ∠3 and ∠6 are _____

6) ∠1 and ∠7 are _____

7) ∠4 and ∠5 are _____

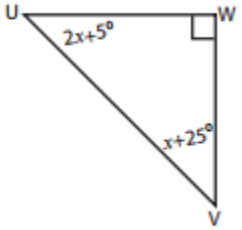
8) ∠2 and ∠8 are _____

6)



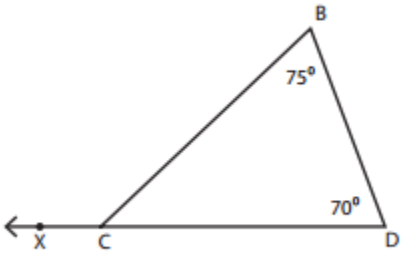
$\angle U =$ _____

7) Find the value of x and then the measure of each angle.

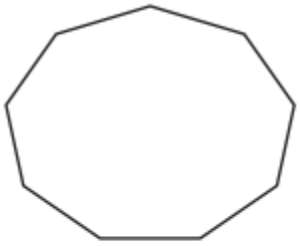


$x =$ _____

8) Find the exterior angle.



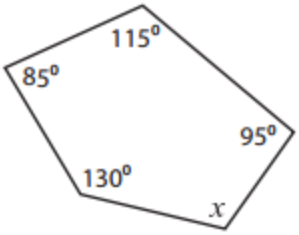
9)



Number of sides : _____

Sum of the interior angles : _____

10) Find the missing angle x



Sum of the interior angles = _____

x = _____

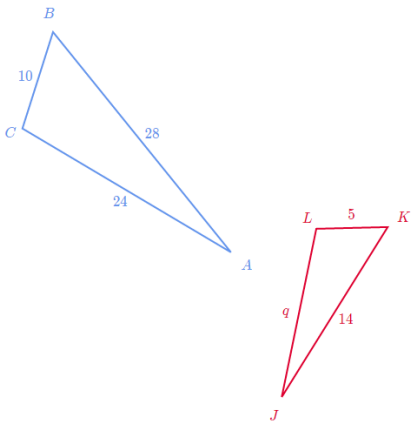
11)

Number of sides = _____

Each exterior angle = _____

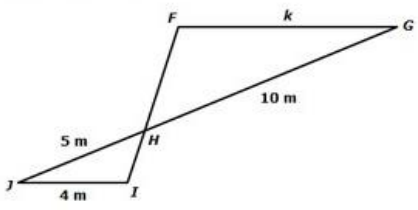
12) Tonya is 1.3 meters tall. She stands 7 meters in front of a tree and casts a shadow 1.8 meters long. How tall is the tree?

13) Find the missing side of the similar triangles.



14)

In the diagram below, $\triangle JIH \sim \triangle GFH$. Find k.



Write your answer as a whole number or a decimal. Do not round.

k = _____ metres

15) Write in slope intercept form and identify the slope and y-intercept.

$3x - 8y = 12$