

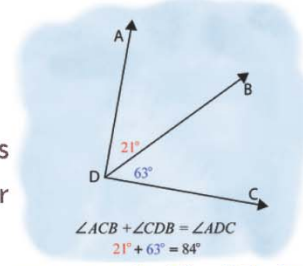
Name :

Class :



# Angle Postulate

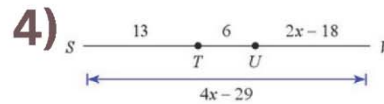
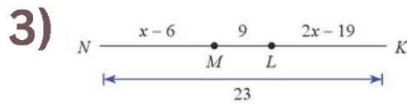
The sum of two adjacent angle measures will be equal to the measure of the larger angle they form.



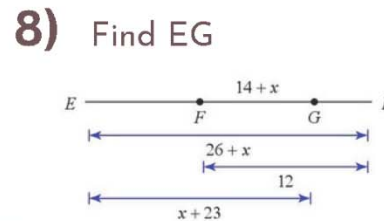
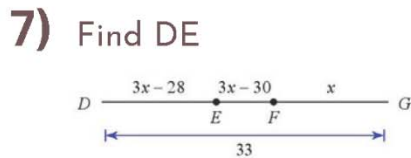
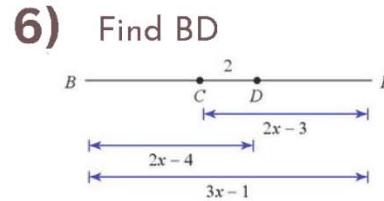
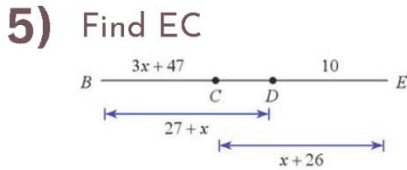
Points A, B, and C are collinear. Point B is between A and C. Solve for x

1)  $AC = 3x + 3$ ,  $AB = -1 + 2x$ , and  $BC = 11$ .  
Find x.

2)  $AC = 22$ ,  $BC = x + 14$ , and  $AB = x + 10$ .  
Find x.



Find the length indicated



Critical thinking questions:

9)

Points A, B, C, D, and E are collinear and in that order. Find  $AC$  if  $AE = x + 50$  and  $CE = x + 32$ .

10)

Write a segment addition problem using three points (like question 11) that asks the student to solve for x but has a solution  $x = 20$ .