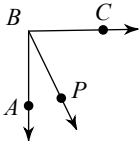


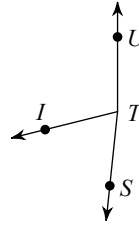
Segment and Angle Addition Postulate

Name _____

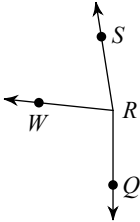
- 1) $m\angle PBA = 26^\circ$, $m\angle CBA = 19x - 4$,
and $m\angle CBP = 14x - 5$. Find x .



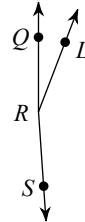
- 2) $m\angle STI = 70^\circ$, $m\angle ITU = -4 + 9x$,
and $m\angle STU = 14x + 6$. Find x .



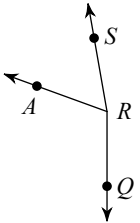
- 3) Find x if $m\angle WRS = x + 77$,
 $m\angle QRW = x + 98$, and $m\angle QRS = 171^\circ$.



- 4) $m\angle QRS = 176^\circ$, $m\angle QRL = x + 11$,
and $m\angle LRS = 14x + 15$. Find x .

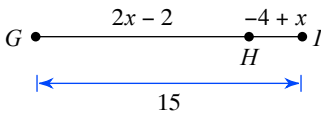


- 5) $m\angle QRA = 11x + 11$, $m\angle ARS = 60^\circ$,
and $m\angle QRS = 8 + 18x$. Find x .

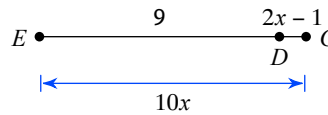


Find the length indicated.

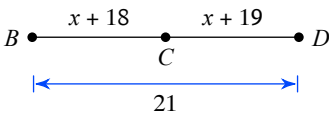
- 6) Find GH



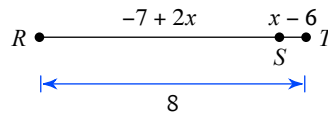
- 7) Find EC



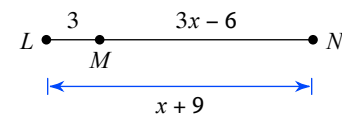
- 8) Find BC



- 9) Find ST



- 10) Find MN



Answers to

1) 5
5) 9
9) 1

2) 12
6) 12
10) 12

3) -2
7) 10

4) 10
8) 10