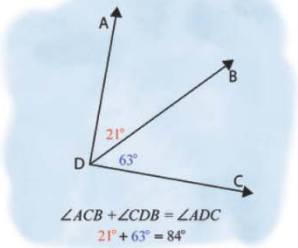
Name _____

Name : Class :

Angle Postulate

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

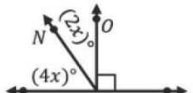


$\angle ACB + \angle CDB = \angle ADC$

$21° + 63° = 84°$

Find the missing angle measurement using the angle addition postulate

1 T, U, and V are collinear. Suppose U is between T and V and that the following is true: $TU = 7x - 4$, $UV = 6x + 10$, and $TV = 45$. Find TU.

2 

$m\angle LMN = ____°$

3 $EF = 3x$. FG is three times as long as EF. EG is 72. Find FG.

4 $WZ = 32$, $YZ = 6$, and X is the midpoint of $\overline{WY}$.

Find WX.

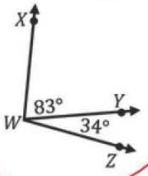
5 Angles A and B are complementary.

$m\angle A = (x - 4)°$

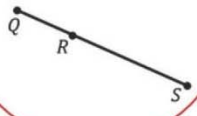
$m\angle B = (2x + 7)°$

$x = ____$

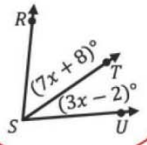
6 $m\angle XWZ = ____°$



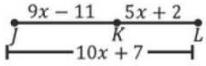
7 $QR = 7$
$QS = 23$
Find RS.



8 $m\angle RSU = 76°$.
$m\angle RST = ____°$



9 Find JK.



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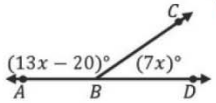
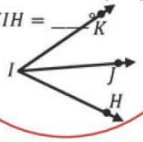


$m\angle ABC = ____°$

11 Let $m\angle KIJ \cong m\angle JIH$, $m\angle JIH = (4x + 3)°$, and $m\angle KIH = (12x)°$.

$m\angle KIH = ____°$



End!

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