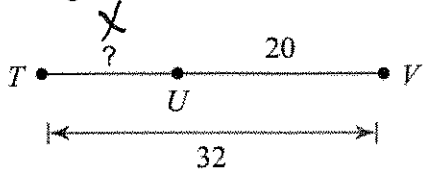
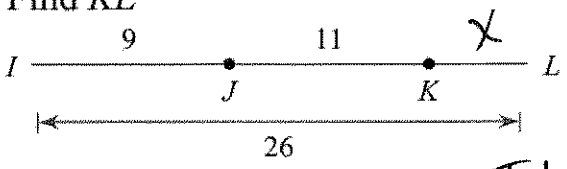
Use the Segment Addition Postulate to find the indicated segment length.



$TU + UV = TV \rightarrow X + 20 = 32$

$X = 12$

Find KL



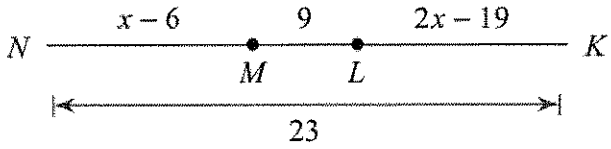
$IJ + JK + KL = IL$

$9 + 11 + X = 26$

$20 + X = 26$

$X = 6$

Use the Segment Addition Postulate to set up and solve an equation to find the value of x.



$NM + ML + LK = NK$

$X - 6 + 9 + 2X - 19 = 23$

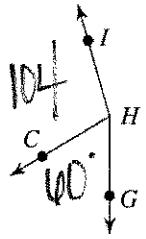
$3X + (-16) = 23$

$3X = 39$

$X = 13$

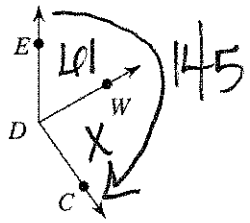
Use the Angle Addition Postulate to find the indicated angle measure.

$m\angle GHC = 60°$ and $m\angle CHI = 104°$
Find $m\angle GHI$.



$104 + 60 = 164$

Find $m\angle WDC$ if $m\angle EDC = 145°$
and $m\angle EDW = 61°$.

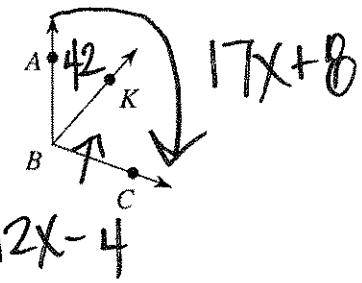


$X + 61 = 145$

$X = 84$

Use the Angle Addition Postulate to find the indicated angle measure.

$m\angle ABC = 17x + 8$, $m\angle ABK = 42°$,
and $m\angle KBC = 12x - 4$. Find $m\angle ABC$.



$m\angle ABK + m\angle KBC = m\angle ABC$

$42 + 12X - 4 = 17X + 8$

$12X + 38 = 17X + 8$

$30 = 5X$

$6 = X$

$m\angle ABC = 17X + 8$

$= 17(6) + 8 = 110°$