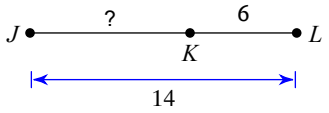
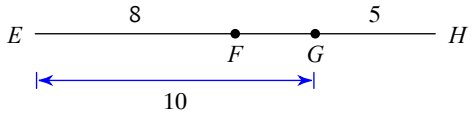
Find the length indicated. Label your answer with correct notation.

1) 

2) Find *FH*

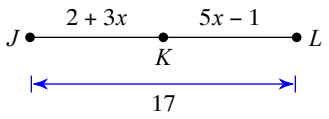


Points A, B, and C are collinear. Point B is between A and C. Solve for *x*.

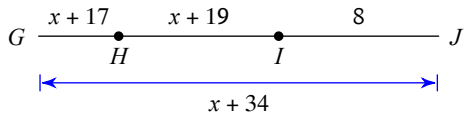
3) Find x if $BC = 8$, $AC = x + 29$, and $AB = 2x + 33$.

Find the measure that is indicated. Label your answer with correct notation.

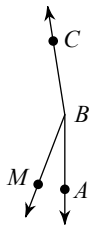
4) Find *KL*



5) Find *HI*

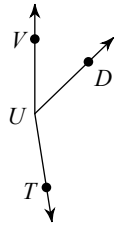


6) Find $m\angle ABM$ if $m\angle ABC = 171°$ and $m\angle MBC = 150°$.

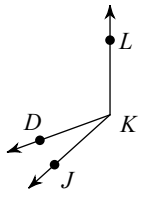


7) Point B is in the interior of $\angle PQR$. If $m\angle PQB = 38°$ and $m\angle RQB = 24°$, find $m\angle RQP$.

8) $m\angle DUT = 24x + 5$, $m\angle VUD = 46°$, and $m\angle VUT = 35x - 4$. Find x.



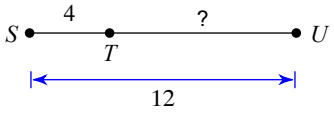
9) $m\angle DKL = 21x + 5$, $m\angle JKL = 132°$, and $m\angle JKD = 4x + 2$. Find $m\angle JKD$.



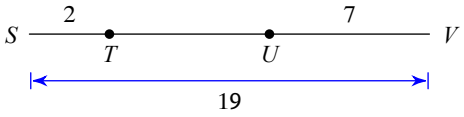
SECTION 2.2 HOMEWORK: **Name** _____

Directions: Show ALL work. Label all answers with correct notation. CHECK answers with the key at the end!

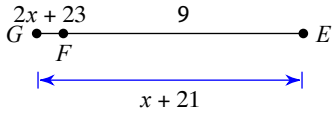
Find the length indicated.

10) 

11) Find *TU*



Solve for *x*.

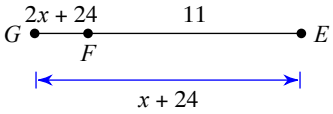
12) 

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

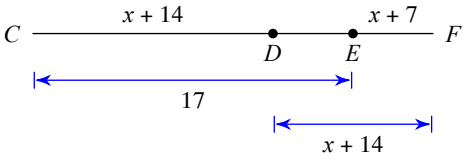
13) $AC = 8$, $AB = 2x - 13$, and $BC = 2x - 7$.
Find x.

Find the length indicated.

14) Find *GF*

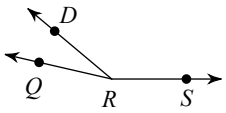


15) Find *DF*

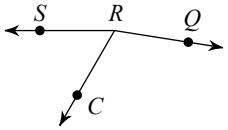


16) Point E is in the interior of $\angle ABC$.
If $m\angle ABE = 40°$ and $m\angle ABC = 114°$,
find $m\angle EBC$.

17) Find x if $m\angle DRS = x + 143$,
$m\angle QRS = 167°$, and $m\angle QRD = x + 30$.



18) Find $m\angle QRS$ if $m\angle QRC = 111°$,
$m\angle CRS = 4 + 14x$, and $m\angle QRS = 7 + 41x$.



Answers to

1) 8
2) 7
3) −12
4) 9
5) 9
6) 21°
7) 62
8) 5
9) 22°
10) 8
11) 10
12) −11
13) 7
14) 2
15) 10
16) 74
17) −3
18) 171°