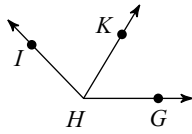
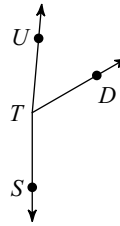


Geometry - Homework 7

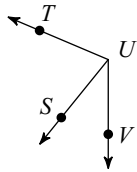
- 1) $m\angle KHG = 59^\circ$ and $m\angle IHK = 75^\circ$.
Find $m\angle IHG$.



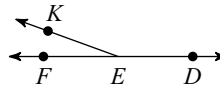
- 2) Find $m\angle DTS$ if $m\angle UTS = 175^\circ$
and $m\angle UTD = 55^\circ$.



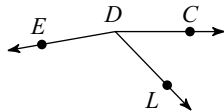
- 3) Find $m\angle VUS$ if $m\angle SUT = 74^\circ$
and $m\angle VUT = 113^\circ$.



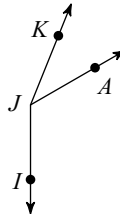
- 4) Find $m\angle FEK$ if $m\angle KED = 160^\circ$
and $m\angle FED = 180^\circ$.



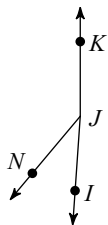
- 5) Find $m\angle CDE$ if $m\angle LDE = 124^\circ$
and $m\angle CDL = 46^\circ$.



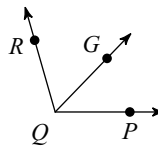
- 6) Find $m\angle KJI$ if $m\angle KJA = 38^\circ$
and $m\angle AJI = 120^\circ$.



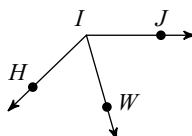
- 7) Find $m\angle IJK$ if $m\angle NJK = 140^\circ$
and $m\angle IJN = 36^\circ$.



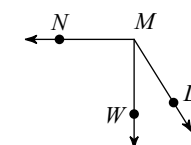
- 8) Find $m\angle RQG$ if $m\angle RQP = 106^\circ$
and $m\angle GQP = 46^\circ$.



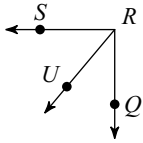
- 9) $m\angle JIH = 136^\circ$ and $m\angle WIH = 62^\circ$.
Find $m\angle JIW$.



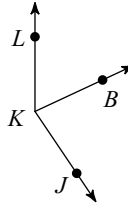
- 10) Find $m\angle LMN$ if $m\angle WMN = 90^\circ$
and $m\angle LMW = 32^\circ$.



- 11) Find x if $m\angle URS = 50^\circ$, $m\angle QRU = 40x$, and $m\angle QRS = 90x$.



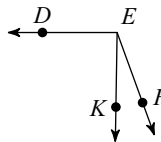
- 12) $m\angle BKJ = x + 92$, $m\angle LKJ = 146^\circ$, and $m\angle LKB = x + 76$. Find x .



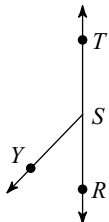
- 13) Find x if $m\angle IQR = 18x - 4$, $m\angle PQI = 28^\circ$, and $m\angle PQR = 20x + 8$.



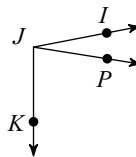
- 14) Find x if $m\angle FED = 110^\circ$, $m\angle KED = 22x + 1$, and $m\angle FEK = 6x - 3$.



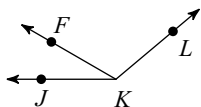
- 15) $m\angle RST = 180^\circ$, $m\angle YST = 15 + 11x$, and $m\angle RSY = 4x$. Find x .



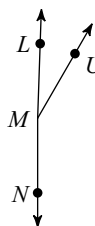
- 16) Find x if $m\angle IJK = 2x + 101$, $m\angle IJP = 20^\circ$, and $m\angle PJK = x + 81$.



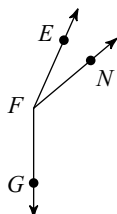
- 17) Find x if $m\angle JKL = 15x - 10$, $m\angle JFK = 3x$, and $m\angle FKL = 110^\circ$.



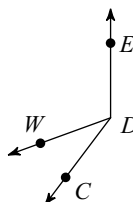
- 18) $m\angle LMN = 178^\circ$, $m\angle UMN = 12x + 18$, and $m\angle LMU = 2x + 6$. Find x .



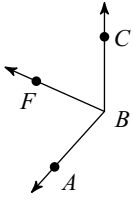
- 19) Find x if $m\angle NFG = 14x - 10$, $m\angle EFG = 156^\circ$, and $m\angle EFN = 3x - 4$.



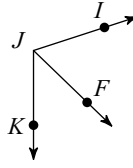
- 20) $m\angle CDW = x + 38$, $m\angle CDE = 143^\circ$, and $m\angle WDE = x + 115$. Find x .



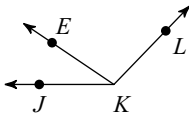
- 21) $m\angle FBC = 66^\circ$, $m\angle ABF = 7x + 2$,
and $m\angle ABC = 12x + 18$. Find $m\angle ABC$.



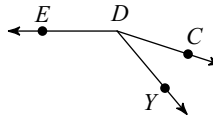
- 22) $m\angle IJF = 62^\circ$, $m\angle IJK = 36x$,
and $m\angle FJK = 15x + 1$. Find $m\angle IJK$.



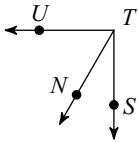
- 23) Find $m\angle EKL$ if $m\angle JKE = x + 39$,
 $m\angle JKL = 134^\circ$, and $m\angle EKL = x + 105$.



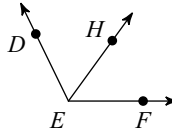
- 24) $m\angle CDY = x + 39$, $m\angle CDE = 162^\circ$,
and $m\angle YDE = 137 + x$. Find $m\angle YDE$.



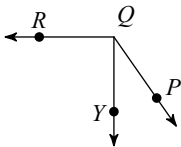
- 25) $m\angle STN = x + 37$, $m\angle NTU = x + 67$,
and $m\angle STU = 90^\circ$. Find $m\angle STN$.



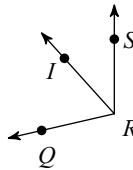
- 26) $m\angle DEH = 62^\circ$, $m\angle HEF = x + 54$,
and $m\angle DEF = 2x + 116$. Find $m\angle HEF$.



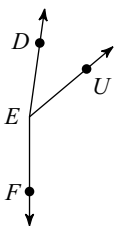
- 27) $m\angle YQR = x + 98$, $m\angle PQR = 125^\circ$,
and $m\angle PQY = x + 43$. Find $m\angle PQY$.



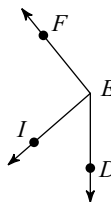
- 28) $m\angle QRI = 7x - 9$, $m\angle QRS = 9x + 13$,
and $m\angle IRS = 42^\circ$. Find $m\angle QRI$.



- 29) $m\angle UEF = 15x - 5$, $m\angle DEU = 6 + 4x$,
and $m\angle DEF = 172^\circ$. Find $m\angle UEF$.



- 30) Find $m\angle DEF$ if $m\angle DEI = 49^\circ$,
 $m\angle IEF = 6x + 20$,
and $m\angle DEF = 10x + 21$.



Answers to Geometry - Homework 7

1) 134°

9) 74°

17) 10

25) 30°

3) 39°

11) 1

19) 10

27) 35°

5) 170°

13) 8

21) 138°

29) 130°

7) 176°

15) 11

23) 100°