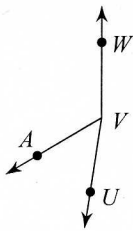
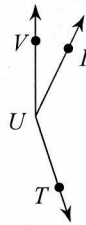


6-3 Angle Addition Postulate (ver3)\_hw

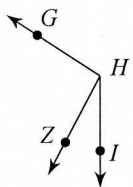
- 1)  $m\angle UVW = 22x - 5$ ,  $m\angle UVA = 51^\circ$ ,  
and  $m\angle AVW = 16x - 8$ . Find  $m\angle UVW$ .



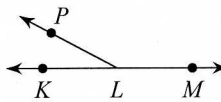
- 2) Find  $m\angle VUT$  if  $m\angle VUT = 33x - 3$ ,  
 $m\angle VUI = 26^\circ$ , and  $m\angle IUT = 27x + 1$ .



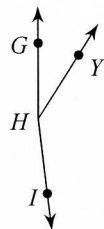
- 3) Find  $m\angle IHG$  if  $m\angle IHZ = 28^\circ$ ,  
 $m\angle IHG = 30x + 3$ , and  $m\angle ZHG = 24x - 1$ .



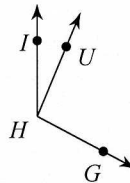
- 4) Find  $m\angle PLM$  if  $m\angle KLP = x + 16$ ,  
 $m\angle PLM = 11x + 20$ , and  $m\angle KLM = 180^\circ$ .



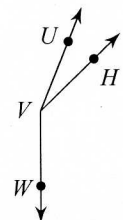
- 5)  $m\angle GHY = 33 + x$ ,  $m\angle YHI = 140^\circ$ ,  
and  $m\angle GHI = 2x + 173$ . Find  $m\angle GHI$ .



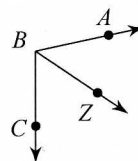
- 6)  $m\angle IHG = 118^\circ$ ,  $m\angle UHG = x + 101$ ,  
and  $m\angle IHU = x + 29$ . Find  $m\angle UHG$ .



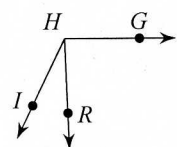
- 7) Find  $m\angle UVW$  if  $m\angle HVW = 12x + 14$ ,  
 $m\angle UVH = 24^\circ$ , and  $m\angle UVW = -2 + 16x$ .



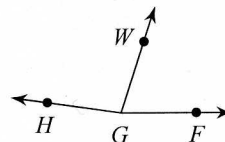
- 8) Find  $m\angle ZBC$  if  $m\angle ZBC = 65 + x$ ,  
 $m\angle ABC = 102^\circ$ , and  $m\angle ABZ = 55 + x$ .



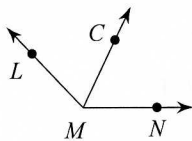
- 9)  $m\angle RHI = 28^\circ$ ,  $m\angle GHI = 9x + 8$ ,  
and  $m\angle GHR = 6x + 16$ . Find  $m\angle GHR$ .



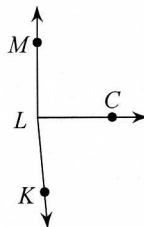
- 10)  $m\angle HGF = 172^\circ$ ,  $m\angle HGW = 10x - 10$ ,  
and  $m\angle WGF = 7x - 5$ . Find  $m\angle WGF$ .



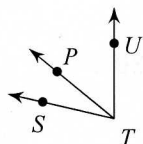
- 11)  $m\angle LMC = 70^\circ$ ,  $m\angle LMN = 43x + 5$ ,  
and  $m\angle CMN = 22x - 2$ . Find  $m\angle LMN$ .



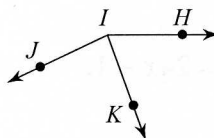
- 12)  $m\angle CLK = x + 89$ ,  $m\angle MLK = 175^\circ$ ,  
and  $m\angle MLC = x + 94$ . Find  $m\angle MLC$ .



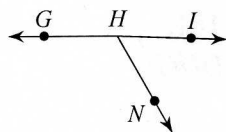
- 13) Find  $m\angle STP$  if  $m\angle STU = 77^\circ$ ,  
 $m\angle PTU = x + 52$ , and  $m\angle STP = x + 27$ .



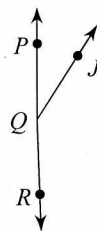
- 14) Find  $m\angle HIK$  if  $m\angle HIK = 11x + 4$ ,  
 $m\angle HIJ = 25x + 5$ , and  $m\angle KIJ = 85^\circ$ .



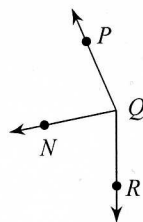
- 15) Find  $m\angle NHG$  if  $m\angle IHG = -2 + 15x$ ,  
 $m\angle NHG = 10x$ , and  $m\angle IHN = 58^\circ$ .



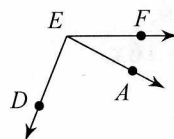
- 16) Find  $m\angle JQR$  if  $m\angle PQR = 178^\circ$ ,  
 $m\angle PQJ = 3x + 9$ , and  $m\angle JQR = 18x + 1$ .



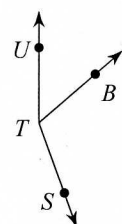
- 17) Find  $m\angle NQP$  if  $m\angle NQP = 7x$ ,  
 $m\angle RQP = 156^\circ$ , and  $m\angle RQN = 6x + 13$ .



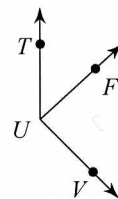
- 18) Find  $m\angle FEA$  if  $m\angle FED = 27x + 4$ ,  
 $m\angle AED = 84^\circ$ , and  $m\angle FEA = 6x + 4$ .



- 19) Find  $m\angle UTB$  if  $m\angle BTS = 110^\circ$ ,  
 $m\angle UTB = 3x + 17$ , and  $m\angle UTS = -5 + 15x$ .



- 20) Find  $m\angle TUF$  if  $m\angle TUF = x + 59$ ,  
 $m\angle TUV = 135^\circ$ , and  $m\angle FUV = x + 98$ .



Answers to 6-3 Angle Addition Postulate (ver3)\_hw

4)  $152^\circ$   
8)  $56^\circ$   
12)  $90^\circ$   
16)  $145^\circ$   
20)  $48^\circ$

3)  $123^\circ$   
7)  $158^\circ$   
11)  $134^\circ$   
15)  $120^\circ$   
19)  $50^\circ$

2)  $162^\circ$   
6)  $95^\circ$   
10)  $72^\circ$   
14)  $70^\circ$   
18)  $28^\circ$

1)  $171^\circ$   
5)  $173^\circ$   
9)  $88^\circ$   
13)  $26^\circ$   
17)  $77^\circ$