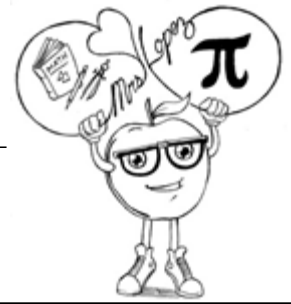


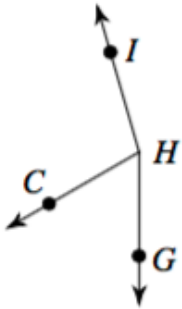
# ASSIGNMENT #14: Angle Addition Postulate

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_



**Fill in the missing angle to complete the equation.**

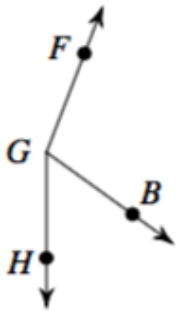
1)



$$\angle CHG + \angle IHC = \underline{\hspace{2cm}}$$

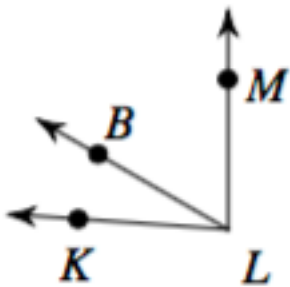
Score: _____ /10
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2)



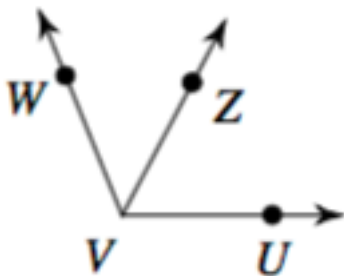
$$\angle HGB + \angle FGB = \underline{\hspace{2cm}}$$

3)



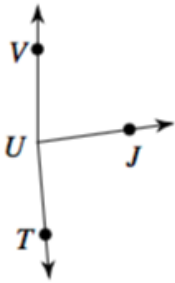
$$\angle MLB + \underline{\hspace{2cm}} = \angle KLM$$

4)

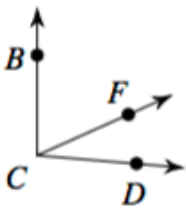


$$\underline{\hspace{2cm}} + \angle UVZ = \angle WVU$$

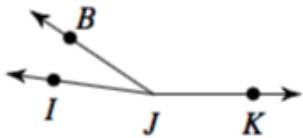
- 5)  $m\angle VUT = 175^\circ$ ,  $m\angle VUJ = 17x - 3$ ,  
and  $m\angle JUT = 17x + 8$ . Find  $x$ .



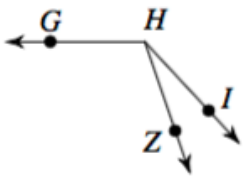
- 6)  $m\angle FCD = x + 41$ ,  $m\angle BCF = x + 78$ ,  
and  $m\angle BCD = 95^\circ$ . Find  $x$ .



- 7) Find  $x$  if  $m\angle BJK = 146 + 2x$ ,  
 $m\angle IJK = 172^\circ$ , and  $m\angle IJB = 2x + 26$ .



- 8)  $m\angle ZHG = 11x - 1$ ,  $m\angle IHZ = 24^\circ$ ,  
and  $m\angle IHG = 12x + 13$ . Find  $m\angle IHG$ .



- 9)  $m\angle GFN = 4x + 10$ ,  $m\angle NFE = 14x + 3$ ,  
and  $m\angle GFE = 157^\circ$ . Find  $m\angle NFE$ .

