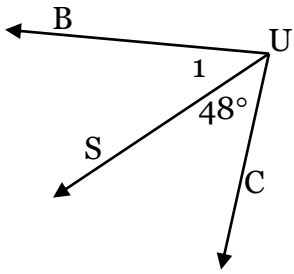


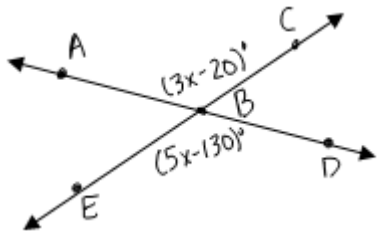
Angle Relationships: Mixed Review Homework#1

Directions: Show your geometry and justifications and then solve.

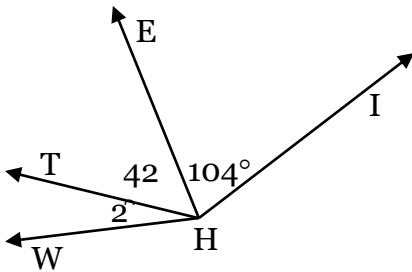
1. Find  $m\angle 1$  if  $m\angle CUB = 78$ .



2. Find  $x$ .



3. Find  $m\angle 2$  if  $m\angle WHI = 160$ .

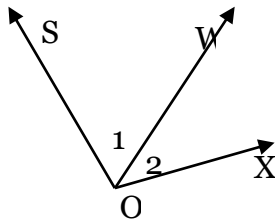


4.  $m\angle SOX = 160$

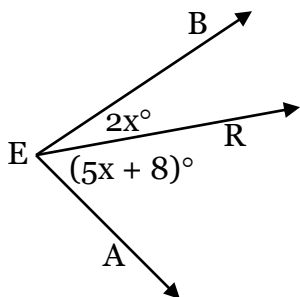
$$m\angle 1 = x + 14$$

$$m\angle 2 = 3x - 10$$

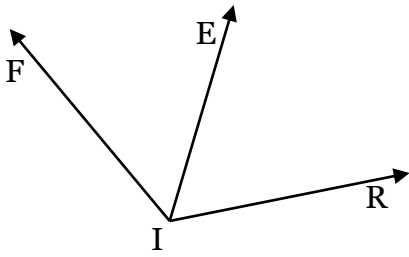
Find  $m\angle 2$



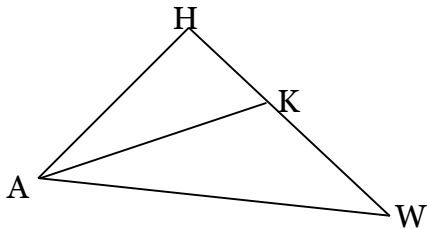
5.  $m\angle BEA = 71$ . Find  $m\angle REA$ .



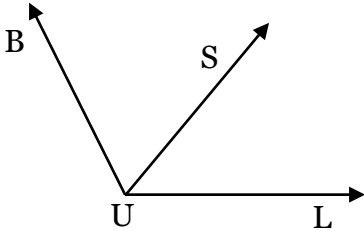
6.  $m\angle FIE = 3x$ ,  $m\angle RIE = 42^\circ$ ,  $m\angle FIR = 5x$   
Find  $m\angle FIR$ .



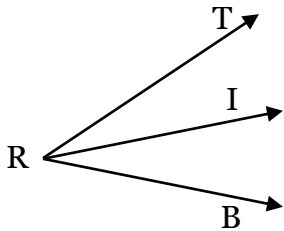
7.  $m\angle HAK = 4x - 2$ ,  $m\angle KAW = 2x - 5$ ,  
and  $m\angle HAW = 77$ .  
Find  $m\angle HAK$  and  $m\angle KAW$ .



8.  $\overrightarrow{US}$  bisects  $\angle BUL$ ,  $m\angle BUS = 2x + 10$ ,  
and  $m\angle SUL = 3x - 18$ .  
Find  $m\angle BUL$ .



9.  $m\angle TRI = 3x - 5$ ,  $m\angle IRB = x + 27$ ,  
and  $m\angle TRB = 86$ .  
Does  $\overrightarrow{RI}$  bisect  $\angle TRB$ ?



10. Find  $x$ .

