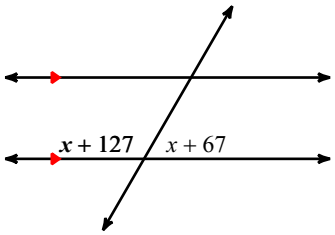
GEOMETRY NTI DAY 2 Name_____

Finding Missing Angles

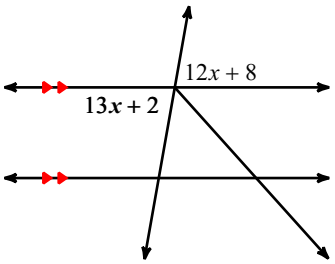
Date_____

Find the measure of each missing angle.

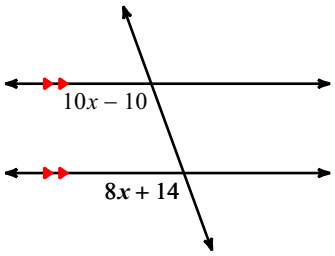
1)



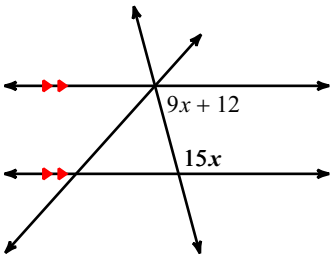
2)



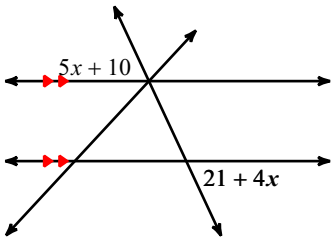
3)



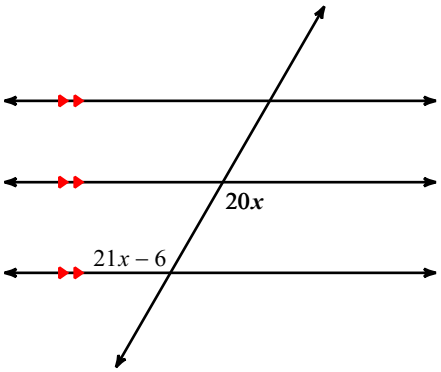
4)



5)

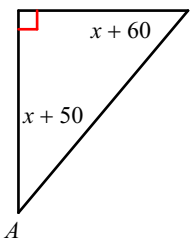


6)

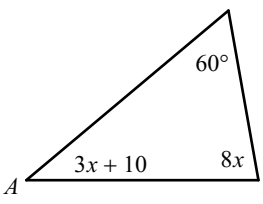


Find the measure of angle A.

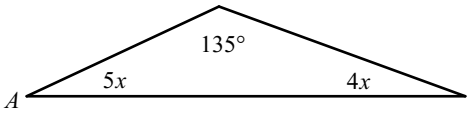
7)



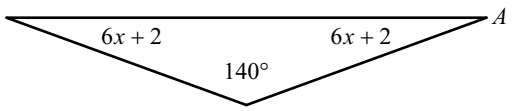
8)



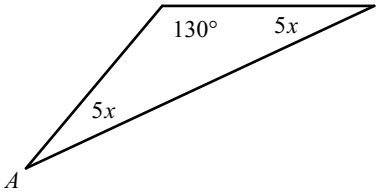
9)



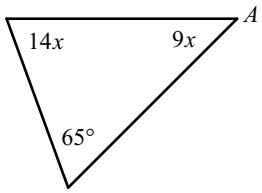
10)



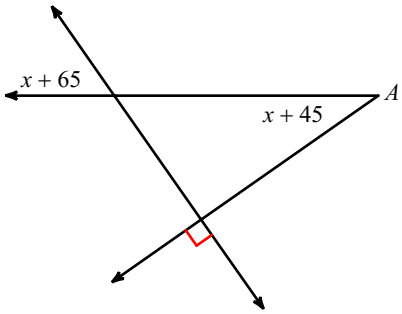
11)



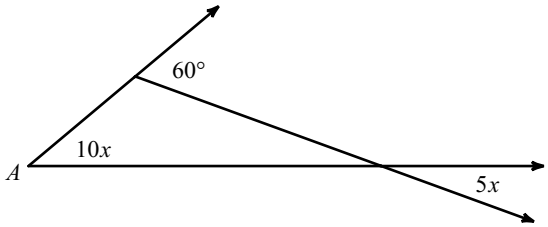
12)



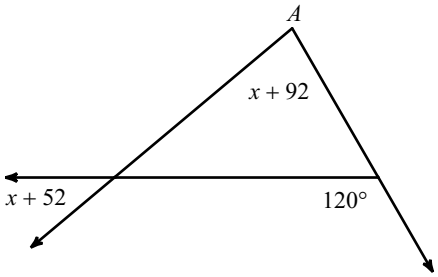
13)



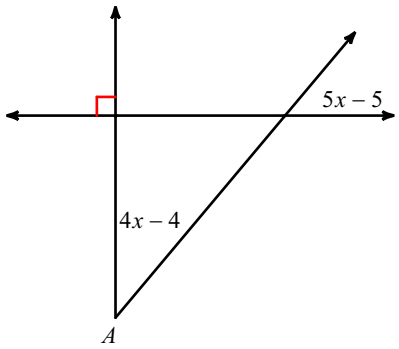
14)



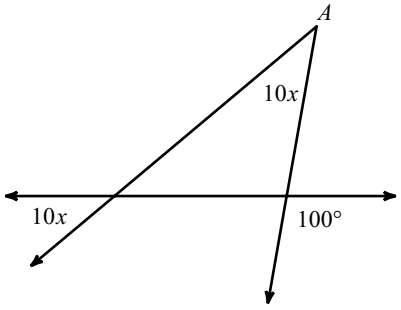
15)



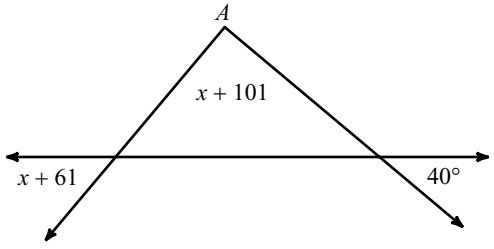
16)



17)

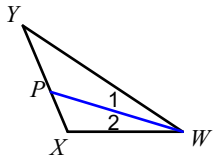


18)

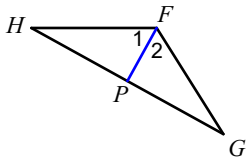


Each figure shows a triangle with one of its angle bisectors.

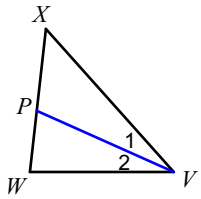
19) $m\angle 2 = 17°$. Find $m\angle 1$.



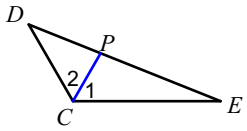
20) Find $m\angle HFG$ if $m\angle 1 = 61°$.



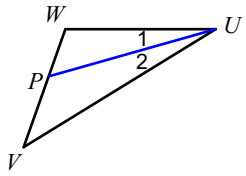
21) $m\angle XVW = 48°$. Find $m\angle 2$.



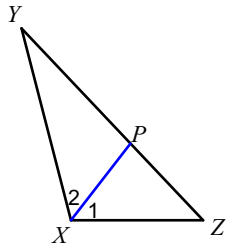
22) $m\angle 1 = 60°$. Find $m\angle 2$.



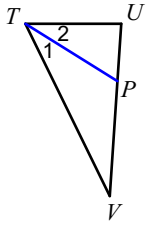
23) Find x if $m\angle 2 = 2x$ and $m\angle 1 = 3x - 8$.



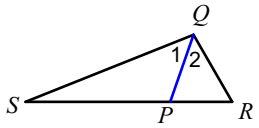
24) $m\angle 2 = 4x + 16$ and $m\angle ZXY = 12x - 4$. Find x.



25) $m\angle 1 = 4x - 8$ and $m\angle VTU = 4 + 6x$. Find x.

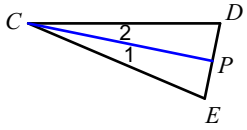


26) $m\angle 1 = 1 + 16x$ and $m\angle 2 = 17x - 2$. Find x.

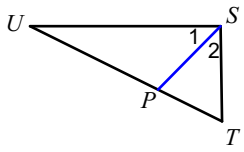


Each figure shows a triangle with one of its angle bisectors. Find the measure of the indicated angle.

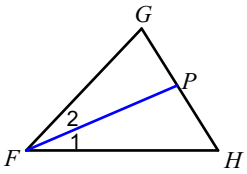
27) Find $m\angle 1$ if $m\angle 2 = x + 4$ and $m\angle ECD = 3x + 1$.



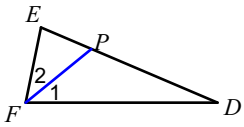
28) $m\angle 2 = 10x - 5$ and $m\angle 1 = 8x + 5$. Find $m\angle 2$.



29) Find $m\angle HFG$ if $m\angle 1 = 4x + 3$ and $m\angle HFG = 10x - 4$.

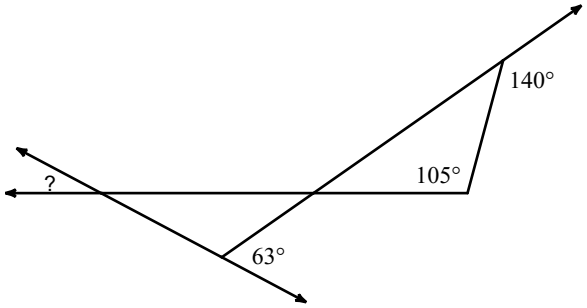


30) $m\angle 1 = 38x + 1$ and $m\angle DFE = 79x - 1$. Find $m\angle 2$.

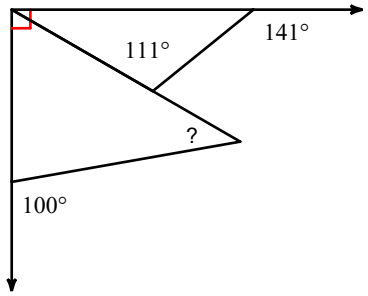


Find the measure of each angle indicated.

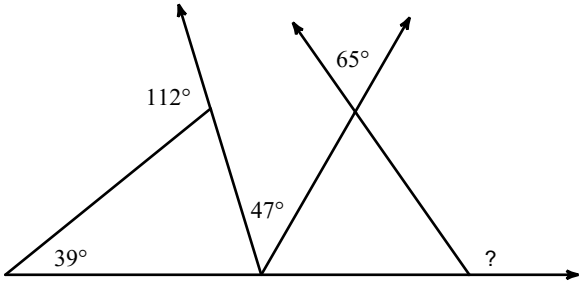
31)



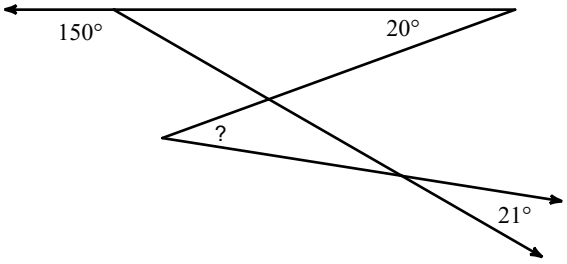
32)



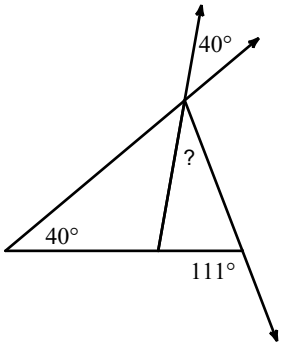
33)



34)



35)



36)