

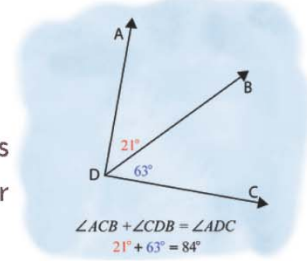
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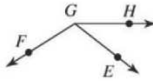
Angle Postulate

The sum of two adjacent angle measures will be equal to the measure of the larger angle they form.

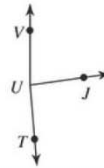


Find Angle Addition Postulate

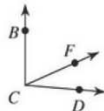
- 1) $m\angle HGF = 16x + 4$, $m\angle EGF = 110^\circ$, and $m\angle HGE = 3x + 11$. Find x .



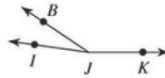
- 2) $m\angle VUT = 175^\circ$, $m\angle VUJ = 17x - 3$, and $m\angle JUT = 17x + 8$. Find x .



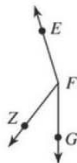
- 3) $m\angle FCD = x + 41$, $m\angle BCF = x + 78$, and $m\angle BCD = 95^\circ$. Find x .



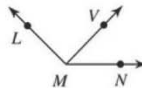
- 4) Find x if $m\angle BJK = 146 + 2x$, $m\angle IJK = 172^\circ$, and $m\angle IJB = 2x + 26$.



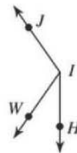
- 5) $m\angle GFZ = 38^\circ$, $m\angle ZFE = 2x + 125$, and $m\angle GFE = x + 163$. Find x .



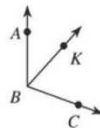
- 6) Find x if $m\angle LMN = 135^\circ$, $m\angle LMV = -1 + 45x$, and $m\angle VMN = 23x$.



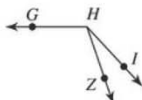
- 7) Find $m\angle HIW$ if $m\angle WIJ = 10x$, $m\angle HIJ = 145^\circ$, and $m\angle HIW = 2x + 13$.



- 8) $m\angle ABC = 17x + 8$, $m\angle ABK = 42^\circ$, and $m\angle KBC = 12x - 4$. Find $m\angle ABC$.



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



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

