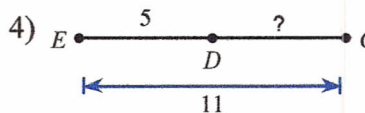
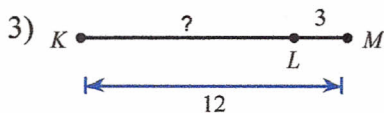
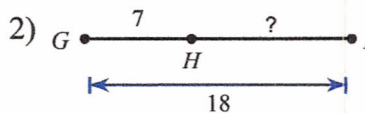
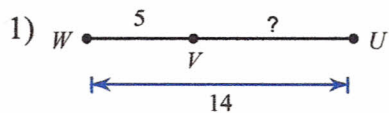


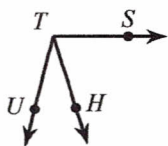
2.2.D2 ~ Special Angles & Postulates

Use the Segment Addition Postulate to find the indicated segment length.

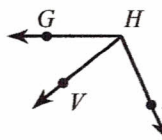


Use the Angle Addition Postulate to find the measure of the indicated angle.

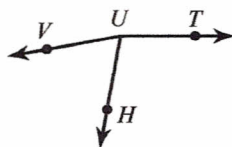
- 5) Find $m\angle STH$ if $m\angle STU = 104^\circ$ and $m\angle HTU = 32^\circ$.



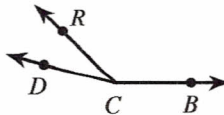
- 6) Find $m\angle IHG$ if $m\angle VHG = 39^\circ$ and $m\angle IHV = 75^\circ$.



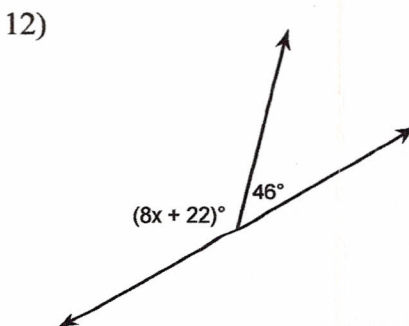
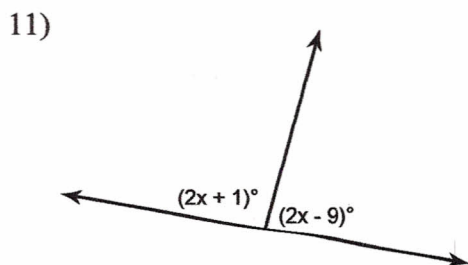
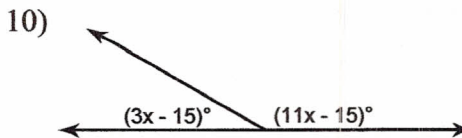
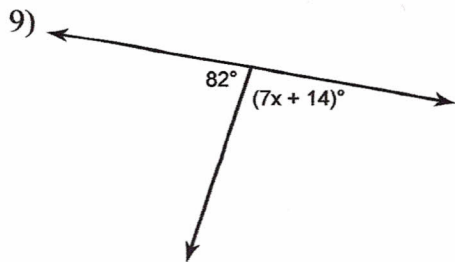
- 7) $m\angle HUV = 70^\circ$ and $m\angle TUV = 170^\circ$. Find $m\angle TUH$.



- 8) $m\angle DCB = 165^\circ$ and $m\angle DCR = 29^\circ$. Find $m\angle RCB$.

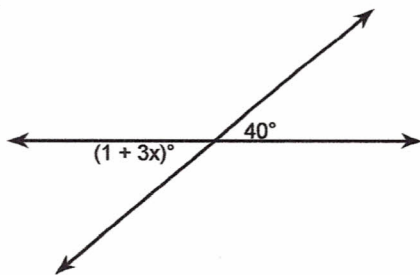


Use the Linear Pair Postulate to set up and solve an equation to find the value of x. Determine the angle measures in each diagram.

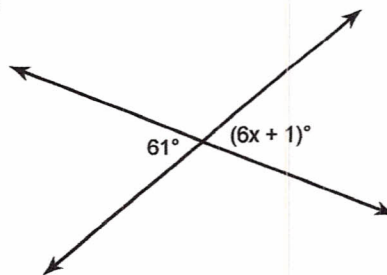


Use vertical angle relationships to set up and solve an equation to find the value of x . Determine the angle measures in each diagram.

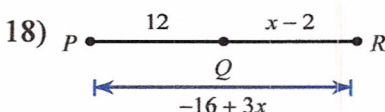
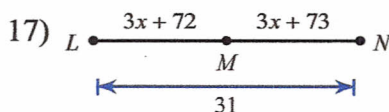
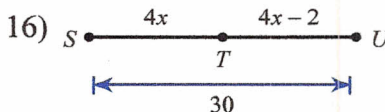
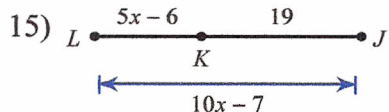
13)



14)

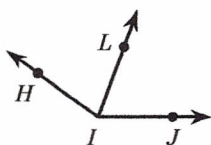


Use the Segment Addition Postulate to find the value of x . Then determine the missing segment measures.

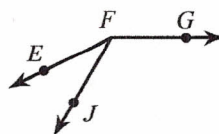


Use the Angle Addition Postulate to set up and solve an equation to find the value of x . Determine the angle measures in each diagram.

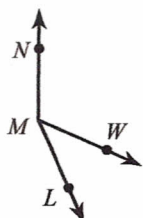
19) Find x if $m\angle LIJ = x + 72$, $m\angle HIJ = 144^\circ$, and $m\angle HIL = x + 76$.



20) Find x if $m\angle GFJ = 120^\circ$, $m\angle JFE = 6x + 4$, and $m\angle GFE = 29x + 9$.



21) $m\angle NMW = x + 126$, $m\angle WML = x + 54$, and $m\angle NML = 156^\circ$. Find x .



22) Find x if $m\angle HIA = 4x + 7$, $m\angle HIJ = 13x - 1$, and $m\angle AIJ = 100^\circ$.

