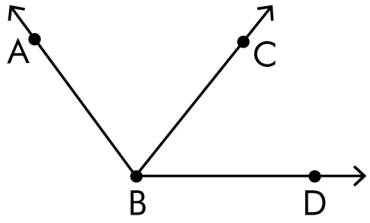
ANGLE ADDITION POSTULATE PRACTICE

MATH MONKS

1) $m\angle ABC = (4x - 2)^\circ$, $m\angle CBD = (2x + 1)^\circ$, $m\angle ABD = 125^\circ$. Solve for x and find each angle.

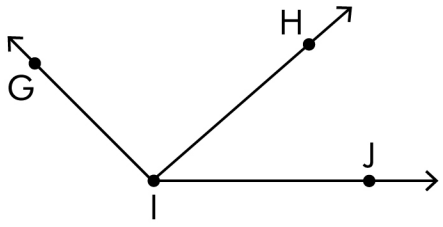


$x =$

$m\angle ABC =$

$m\angle CBD =$

2) $m\angle GIH = (10x - 9)^\circ$, $m\angle HIJ = (3x + 4)^\circ$, $m\angle GIJ = 151^\circ$. Find x, $m\angle GIH$ and $m\angle HIJ$

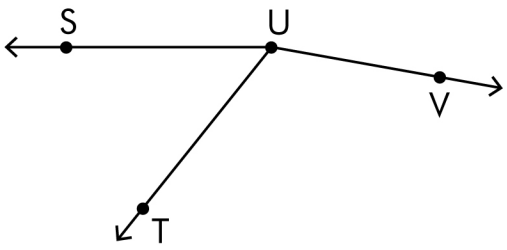


$x =$

$m\angle GIH =$

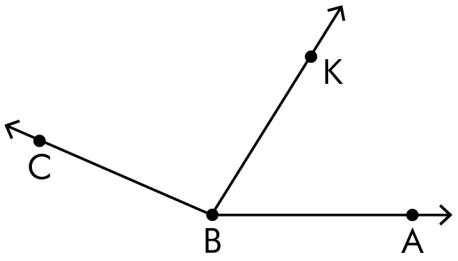
$m\angle HIJ =$

3) $m\angle SUV = 169^\circ$, $m\angle SUT = 54^\circ$. Find $m\angle TUV$.



$m\angle TUV =$

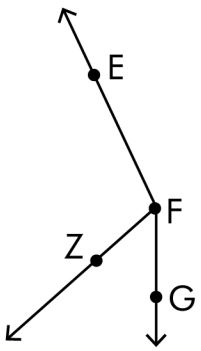
4) If $m\angle ABK = 50^\circ$, $m\angle CBK = 6x$, and $m\angle ABC = (120 - x)^\circ$, find x and $m\angle CBK$



$x =$

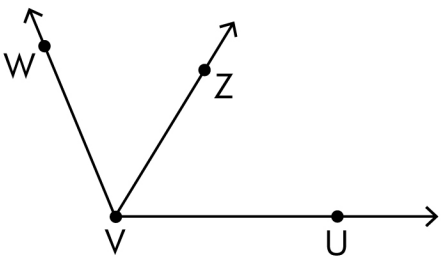
$m\angle CBK =$

5) If $m\angle GFZ = 38^\circ$, $m\angle ZFE = (2x + 125)^\circ$ and $m\angle GFE = x + 163$, find x



$x =$

6) If $m\angle ZVU = 62^\circ$ and $m\angle WVZ = 50^\circ$, find $m\angle WVU$.



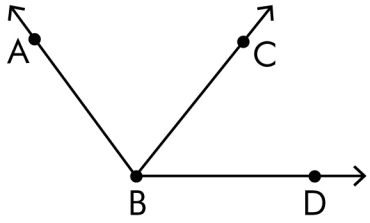
$m\angle WVU =$

ANGLE ADDITION POSTULATE PRACTICE

MATH MONKS

Answers

1) $m\angle ABC = (4x - 2)^\circ$, $m\angle CBD = (2x + 1)^\circ$, $m\angle ABD = 125^\circ$. Solve for x and find each angle.

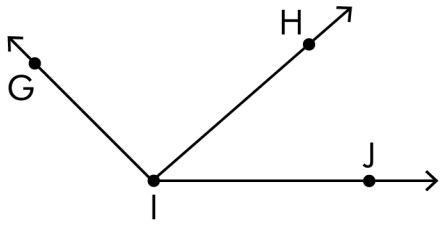


$x = 21^\circ$

$m\angle ABC = 82^\circ$

$m\angle CBD = 43^\circ$

2) $m\angle GIH = (10x - 9)^\circ$, $m\angle HIJ = (3x + 4)^\circ$, $m\angle GIJ = 151^\circ$. Find x, $m\angle GIH$ and $m\angle HIJ$

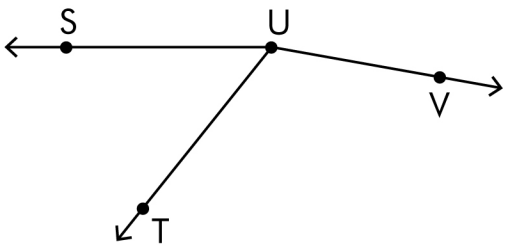


$x = 12^\circ$

$m\angle GIH = 111^\circ$

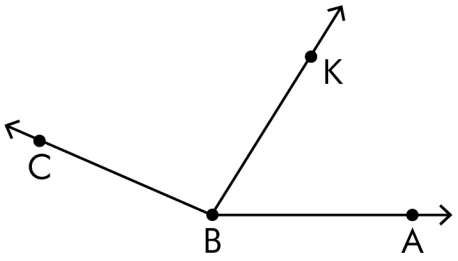
$m\angle HIJ = 40^\circ$

3) $m\angle SUV = 169^\circ$, $m\angle SUT = 54^\circ$. Find $m\angle TUV$.



$m\angle TUV = 115^\circ$

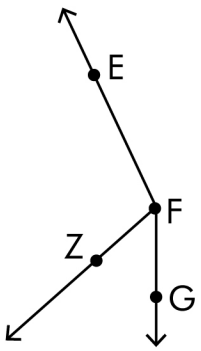
4) If $m\angle ABK = 50^\circ$, $m\angle CBK = 6x$, and $m\angle ABC = (120 - x)^\circ$, find x and $m\angle CBK$



$x = 10^\circ$

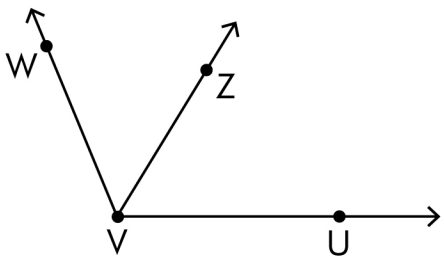
$m\angle CBK = 60^\circ$

5) If $m\angle GFZ = 38^\circ$, $m\angle ZFE = (2x + 125)^\circ$ and $m\angle GFE = x + 163$, find x



$x = 0^\circ$

6) If $m\angle ZVU = 62^\circ$ and $m\angle WVZ = 50^\circ$, find $m\angle WVU$.



$m\angle WVU = 112^\circ$