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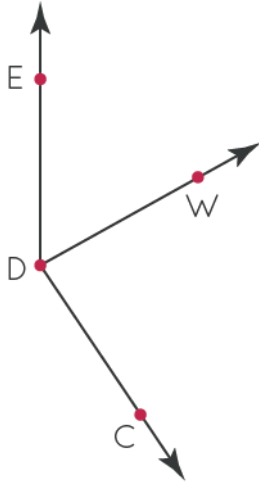
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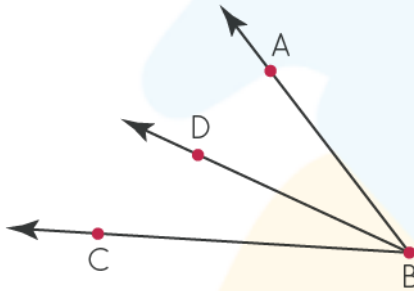
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Angle Addition Postulate Worksheets

- 1) If the $m\angle WDC = 2x + 20$, $m\angle EDW = x + 20$, and $m\angle EDC = 160^\circ$. Find the measure of $\angle EDW$ and $\angle CDW$.



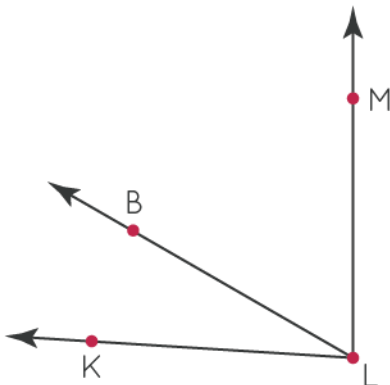
- 2) Trevor was given the task to measure the $\angle CBD$. If $m\angle ABC = 60^\circ$ and BD is the angle bisector of $\angle ABC$.



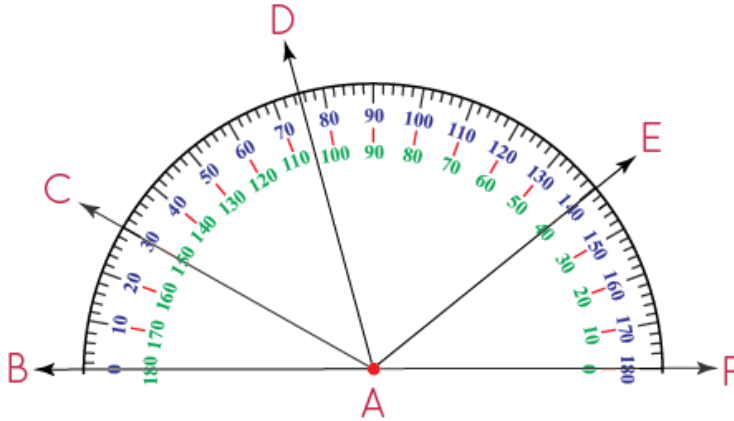
Then $\angle CBD$ is:

- a) 30° b) 40° c) 70° d) 35°

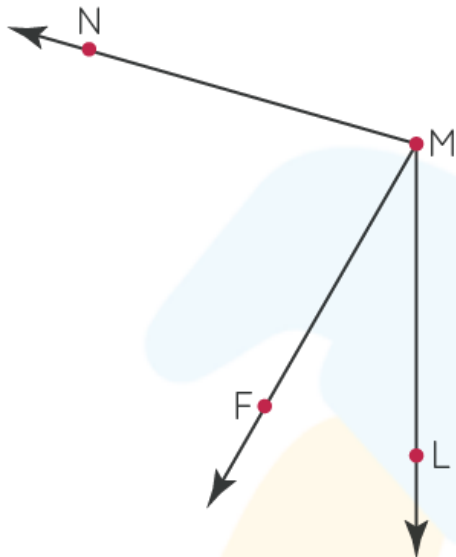
- 3) If $m\angle BLM = 40^\circ$, and $m\angle BLK = 50^\circ$. Find the value of $m\angle KLM$.



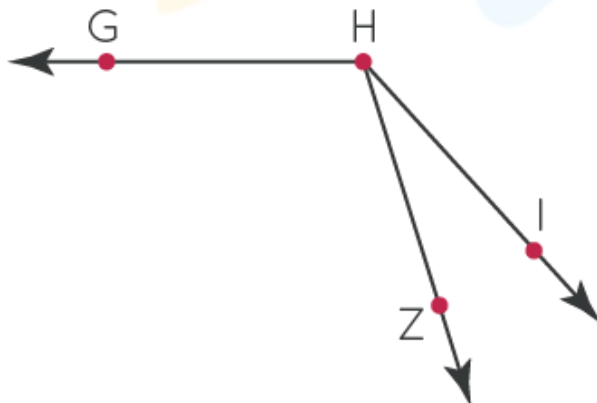
4) Find the $m\angle BAC + m\angle DAC$.



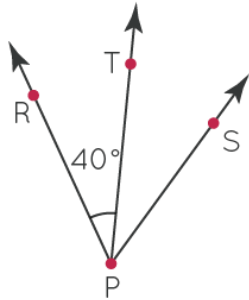
5) If the $m\angle FMN = 3x$, $m\angle FML = 2x$, and $m\angle NML = 150^\circ$. Find the measure of $\angle FMN$ and $\angle FML$.



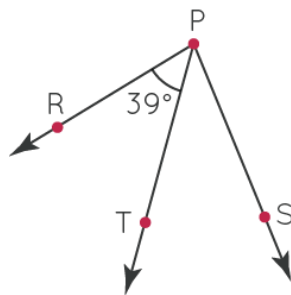
6) Find the measure of $m\angle GHZ$ if $m\angle ZHI = 20^\circ$, and $m\angle GHI = 120^\circ$.



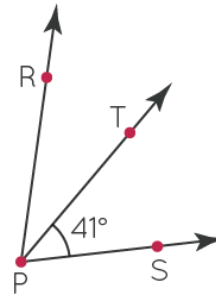
7) If $m\angle RPS = 70^\circ$, measure of all the angles.



(a)

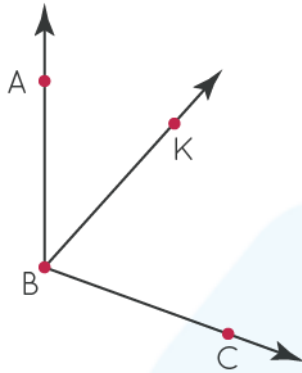


(b)

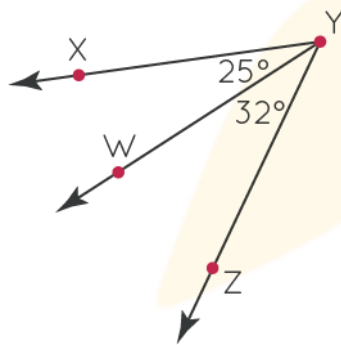


(c)

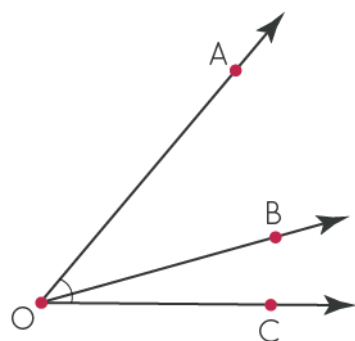
8) If $m\angle ABK = 50^\circ$, $m\angle CBK = 6x$, and $m\angle ABC = 120^\circ - x$.
Then $x = \underline{\hspace{2cm}}$, and $m\angle CBK = \underline{\hspace{2cm}}$.



9) Felicia wants to find the value of $m\angle XYZ$.



10) Using angle addition postulate, find the value of $m\angle AOC$, if $m\angle AOB = 35^\circ$, and $m\angle BOC = 15^\circ$.



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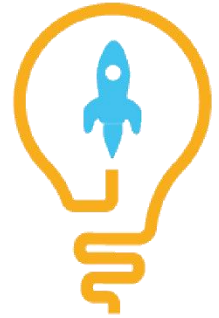
- Kirk Riley

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**ANSWERS**

1)	$\angle CDW = 100^\circ$ $\angle EDW = 60^\circ$
2)	a
3)	90°
4)	$\angle BAD = 76^\circ$
5)	$\angle FMN = 90^\circ$ $\angle FML = 60^\circ$
6)	$\angle GHI = 140^\circ$
7)	a) $\angle TPS = 30^\circ$ b) $\angle TPS = 31^\circ$ c) $\angle TPS = 39^\circ$
8)	$x = 10^\circ$ $\angle CBK = 60^\circ$
9)	$\angle XYZ = 57^\circ$
10)	$\angle AOB = 35^\circ$ $\angle BOC = 15^\circ$