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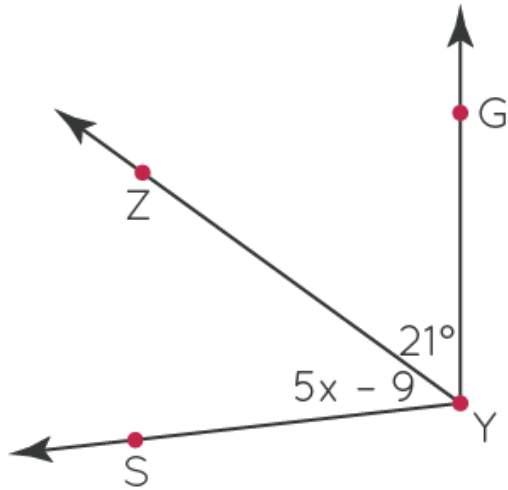
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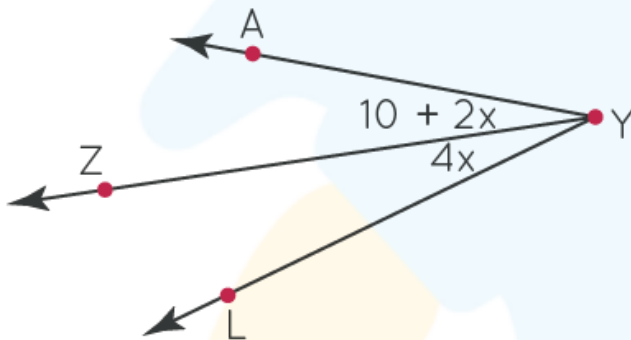
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Angle Addition Postulate Worksheets

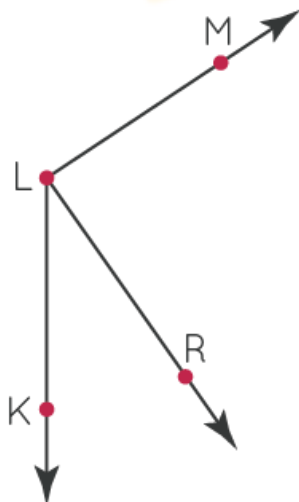
1) If the $m\angle SYG = 63^\circ$. Find the value of x .



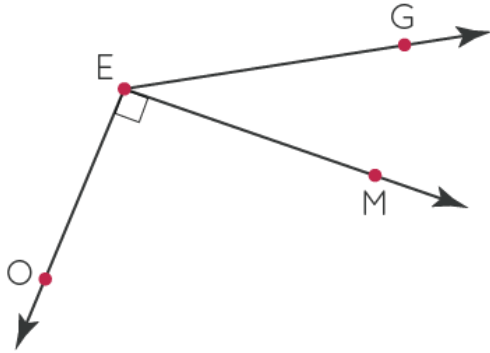
2) Find the measure of angles is given in the picture shown below if $x = 10$.



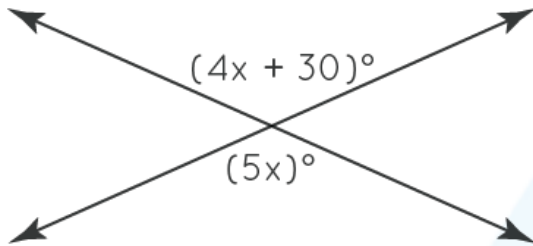
3) If $m\angle MLK = 155^\circ$, and $m\angle RLK = 35^\circ$. Find the value of $m\angle RLM$.



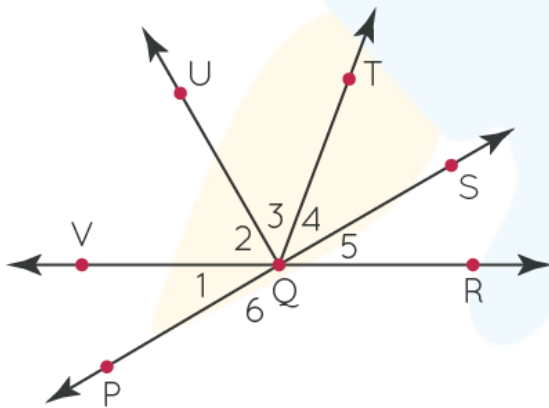
4) If $m\angle MEO = 3 m\angle MEG$. Find all the angles.



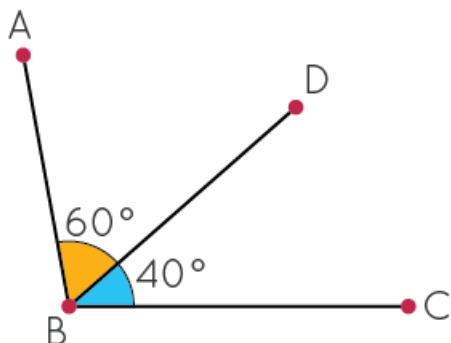
5) Find the measure of all the angles if $4x + 30 = 5x$.



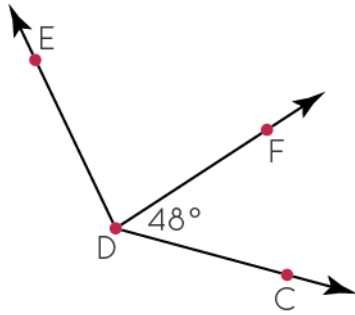
6) If the $m\angle 3 = m\angle 4 = x$, $m\angle 2 = m\angle 5 = y$, $m\angle RQP = 190^\circ$. Find measure of all the angles if $x + y = 90^\circ$, $x = 55^\circ$, and $\angle RQV$ is a straight angle.



7) Find the $m\angle ABC$.



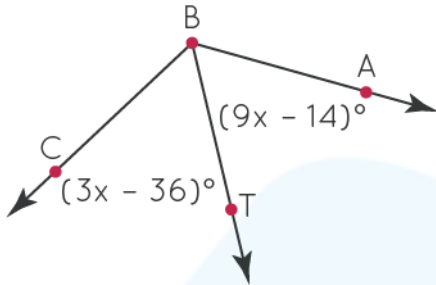
8) If $m\angle EDC = 130^\circ$.



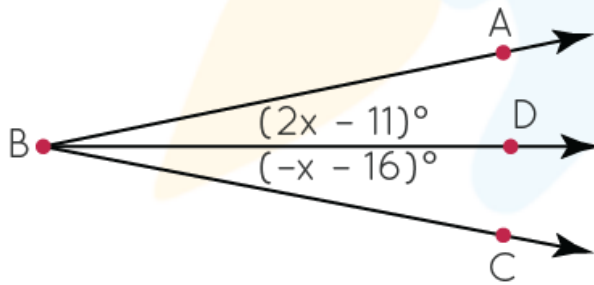
Then $\angle EDF$ is:

a) 80° b) 82° c) 92° d) 72°

9) Find the measure of $m\angle ABC$, if $m\angle ABT = 9x - 14$, and $m\angle TBC = 3x + 36$, and $x = 6$.



10) If BD bisects the $m\angle ABC$, $m\angle ABD = 2x - 1$, $m\angle CBD = x + 16$. Then $x = \underline{\hspace{1cm}}$, $m\angle ABC = \underline{\hspace{1cm}}$, $m\angle ABD = \underline{\hspace{1cm}}$, and $m\angle DBC = \underline{\hspace{1cm}}$.



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"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

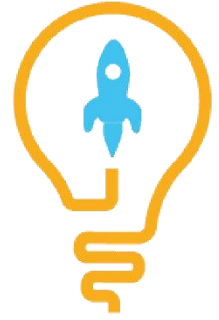
- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	$x = 10.2^\circ$
2)	$\angle AYL = 70^\circ$ $\angle AYZ = 30^\circ$ $\angle LYZ = 40^\circ$
3)	120°
4)	$\angle MEG = 30^\circ$ $\angle OEG = 120^\circ$
5)	$150^\circ, 30^\circ, 150^\circ, 30^\circ$
6)	$\angle 1 = 10^\circ$ $\angle 2 = 35^\circ$ $\angle 3 = 55^\circ$ $\angle 4 = 55^\circ$ $\angle 5 = 35^\circ$
7)	100°
8)	b
9)	$\angle ABC = 94^\circ$
10)	$x = 17^\circ$ $\angle ABC = 66^\circ$ $\angle ABD = \angle BOC = 33^\circ$