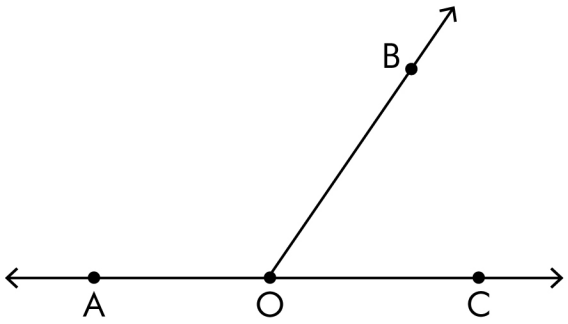
Angle Addition Postulate Exercise

MATH MONKS

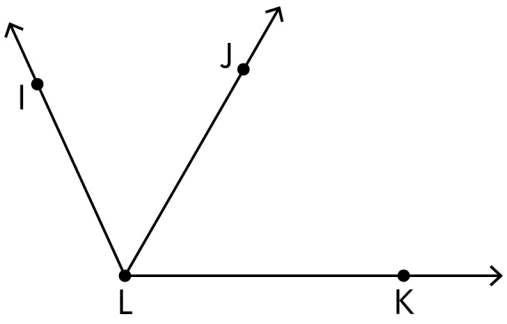
1 $m\angle AOC = 180^\circ$
$m\angle AOB = (42x + 8)^\circ$
$m\angle BOC = (13x + 7)^\circ$
Find $m\angle AOB$ and $m\angle BOC$



$m\angle AOB =$

$m\angle BOC =$

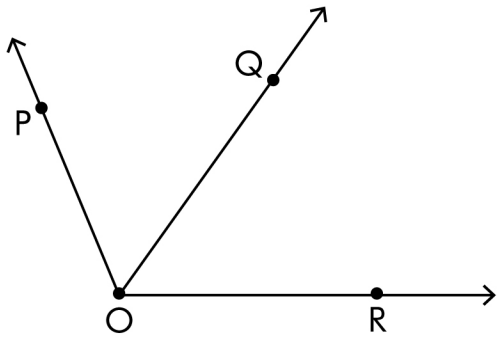
2 $m\angle ILJ = (2x + 10)^\circ$, $m\angle JLK = (4x - 3)^\circ$, $m\angle ILK = 145^\circ$. Find $m\angle ILJ$ and $m\angle JLK$



$m\angle ILJ =$

$m\angle JLK =$

3 $m\angle POQ = (x + 40)^\circ$, $m\angle QOR = (3x - 20)^\circ$, $m\angle POR = (8x - 60)^\circ$. Find $m\angle POQ$, $m\angle QOR$ & $m\angle POR$

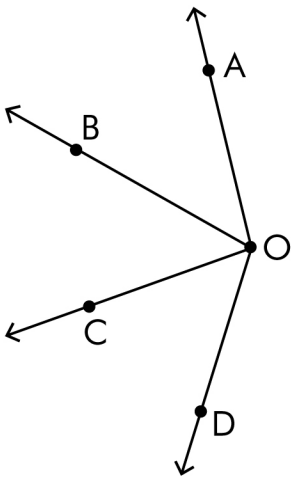


$m\angle POQ =$

$m\angle QOR =$

$m\angle POR =$

4 $m\angle AOB = 48^\circ$
$m\angle COD = 45^\circ$
$m\angle AOD = 141^\circ$
Find $m\angle BOC$.



$m\angle BOC =$

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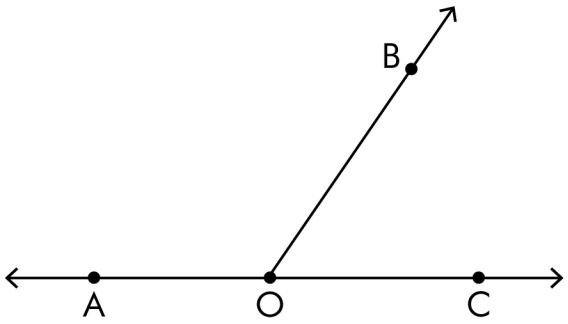
MATH MONKS

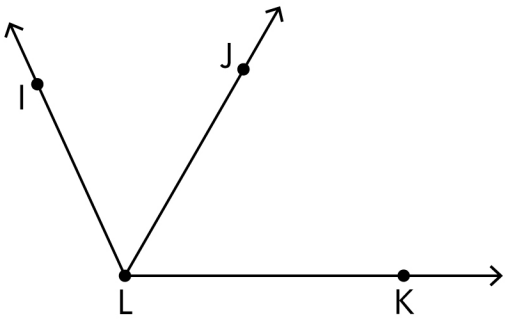
Answers

1 $m\angle AOC = 180^\circ$
$m\angle AOB = (42x + 8)^\circ$
$m\angle BOC = (13x + 7)^\circ$
Find $m\angle AOB$ and $m\angle BOC$



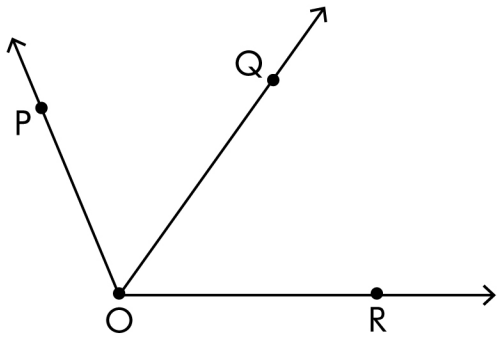
$m\angle AOB = 134^\circ$
$m\angle BOC = 46^\circ$

2 $m\angle ILJ = (2x + 10)^\circ$, $m\angle JLK = (4x - 3)^\circ$, $m\angle ILK = 145^\circ$. Find $m\angle ILJ$ and $m\angle JLK$



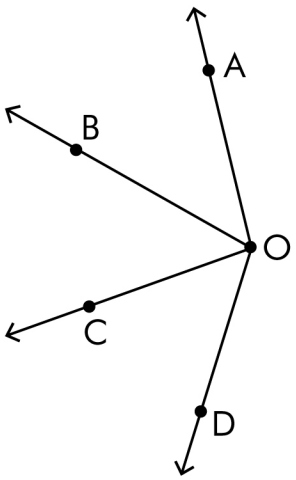
$m\angle ILJ = 56^\circ$
$m\angle JLK = 89^\circ$

3 $m\angle POQ = (x + 40)^\circ$, $m\angle QOR = (3x - 20)^\circ$, $m\angle POR = (8x - 60)^\circ$. Find $m\angle POQ$, $m\angle QOR$ & $m\angle POR$



$m\angle POQ = 60^\circ$
$m\angle QOR = 40^\circ$
$m\angle POR = 100^\circ$

4 $m\angle AOB = 48^\circ$
$m\angle COD = 45^\circ$
$m\angle AOD = 141^\circ$
Find $m\angle BOC$.



$m\angle BOC = 48^\circ$