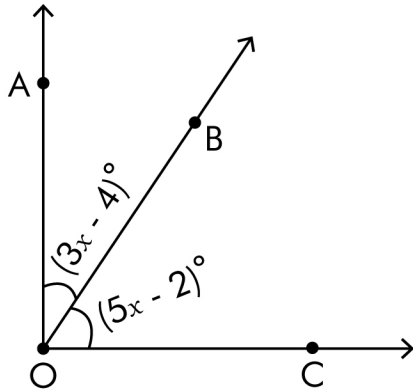


Angles And Angle Additions Postulate

① Solve for x .

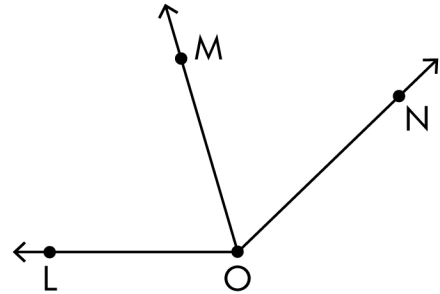


$$x = \underline{\hspace{2cm}}$$

$$m\angle AOB = \underline{\hspace{2cm}}$$

$$m\angle BOC = \underline{\hspace{2cm}}$$

② $m\angle LOM = (4x - 20)^\circ$, $m\angle MON = (3x + 14)^\circ$, $m\angle LON = 155^\circ$. Find each angle.



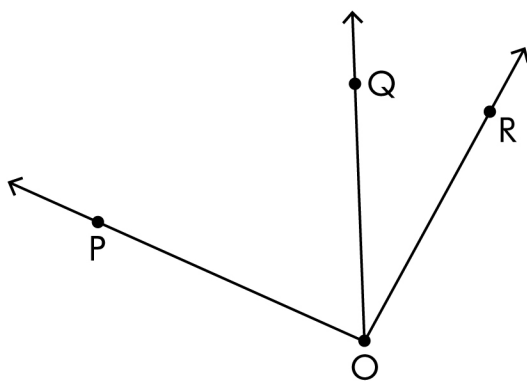
$$x = \underline{\hspace{2cm}}$$

$$m\angle LOM = \underline{\hspace{2cm}}$$

$$m\angle MON = \underline{\hspace{2cm}}$$

$$m\angle LON = \underline{\hspace{2cm}}$$

③ $m\angle POR = 124^\circ$, $m\angle POQ = (6x - 11)^\circ$, $m\angle QOR = (4x - 25)^\circ$. Solve for x . Find each angle.

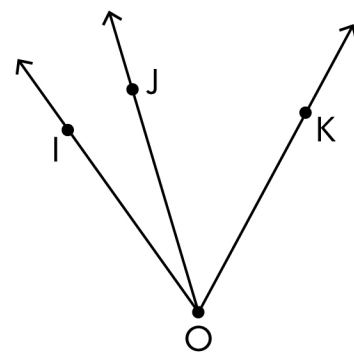


$$x = \underline{\hspace{2cm}}$$

$$m\angle POQ = \underline{\hspace{2cm}}$$

$$m\angle QOR = \underline{\hspace{2cm}}$$

④ $m\angle IOJ = (x + 1)^\circ$, $m\angle JOK = (5x - 9)^\circ$, $m\angle IOK = 64^\circ$. Find each angle.



$$x = \underline{\hspace{2cm}}$$

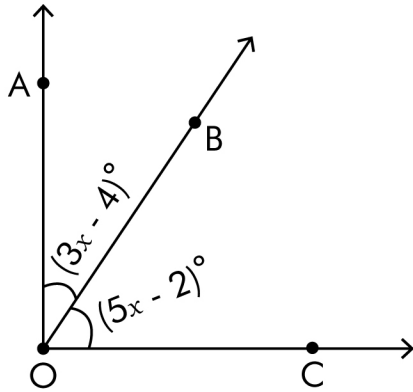
$$m\angle IOJ = \underline{\hspace{2cm}}$$

$$m\angle JOK = \underline{\hspace{2cm}}$$

Angles And Angle Additions Postulate

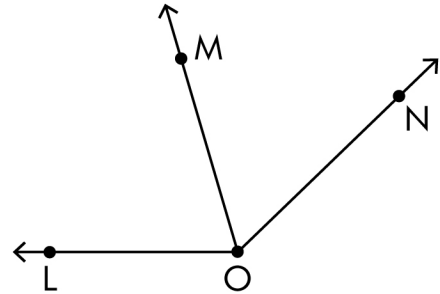
Answers

① Solve for x .



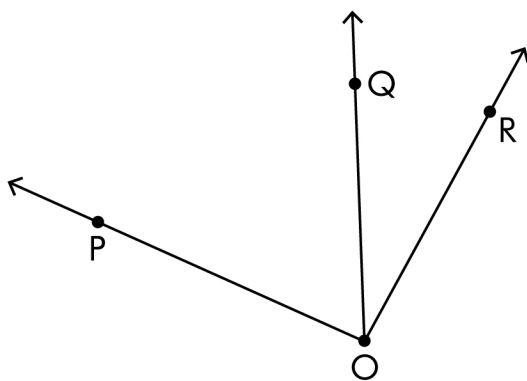
$$x = \underline{12^\circ}$$
$$m\angle AOB = \underline{32^\circ}$$
$$m\angle BOC = \underline{58^\circ}$$

② $m\angle LOM = (4x - 20)^\circ$, $m\angle MON = (3x + 14)^\circ$, $m\angle LON = 155^\circ$. Find each angle.



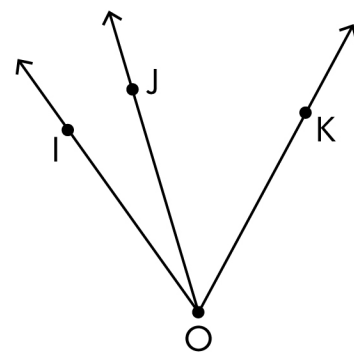
$$x = \underline{23^\circ}$$
$$m\angle LOM = \underline{72^\circ}$$
$$m\angle MON = \underline{83^\circ}$$
$$m\angle LON = \underline{155^\circ}$$

③ $m\angle POR = 124^\circ$, $m\angle POQ = (6x - 11)^\circ$, $m\angle QOR = (4x - 25)^\circ$. Solve for x . Find each angle.



$$x = \underline{16^\circ}$$
$$m\angle POQ = \underline{85^\circ}$$
$$m\angle QOR = \underline{39^\circ}$$

④ $m\angle IOJ = (x + 1)^\circ$, $m\angle JOK = (5x - 9)^\circ$, $m\angle IOK = 64^\circ$. Find each angle.



$$x = \underline{12^\circ}$$
$$m\angle IOJ = \underline{13^\circ}$$
$$m\angle JOK = \underline{51^\circ}$$