



Supplementary Angles

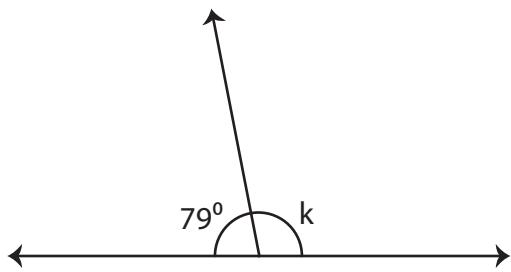
Name _____

Score _____

CS:10

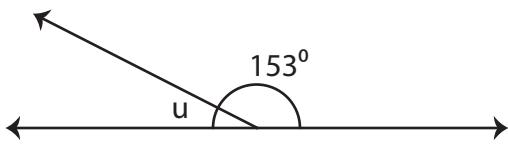
Find the unknown angle.

1)



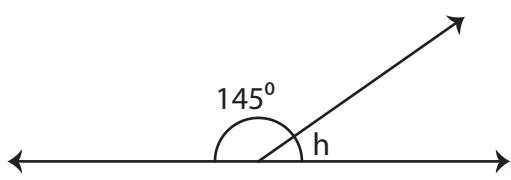
$$m\angle k = \underline{\hspace{2cm}}$$

2)



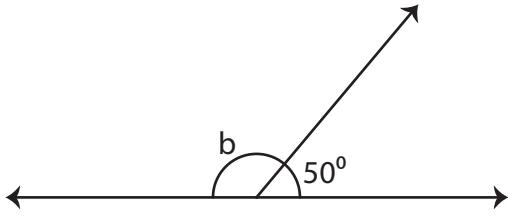
$$m\angle u = \underline{\hspace{2cm}}$$

3)



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

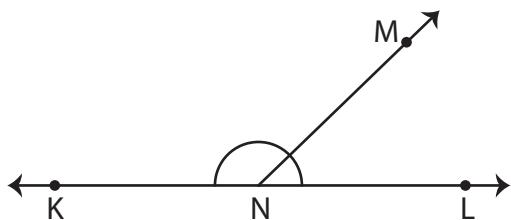
4)



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

Find the value of x.

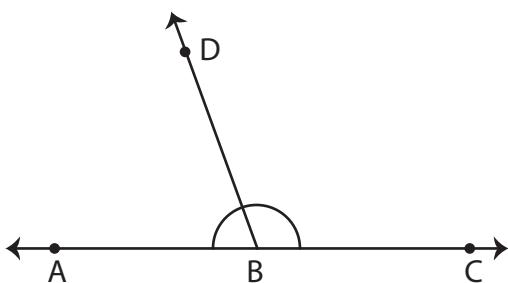
1)



$$m\angle KNM = 136^\circ ; m\angle MNL = (x + 4)^\circ$$

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

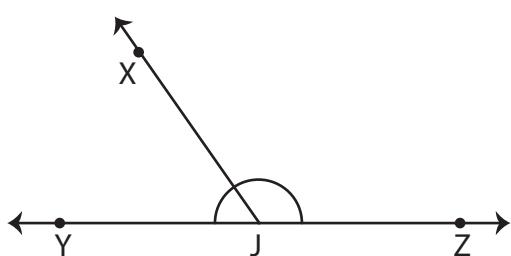
2)



$$m\angle DBC = (x + 1)^\circ ; m\angle ABD = 70^\circ$$

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

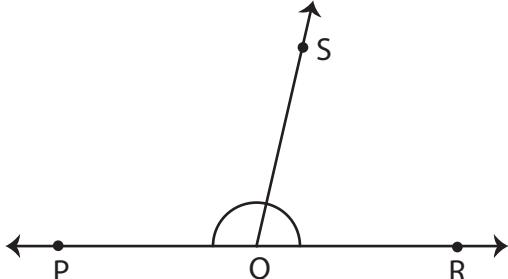
3)



$$m\angle XJY = (x - 10)^\circ ; m\angle XJZ = (2x - 5)^\circ$$

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

4)



$$m\angle SQR = (7x)^\circ ; m\angle PQS = (9x + 4)^\circ$$

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



Supplementary Angles

Name _____

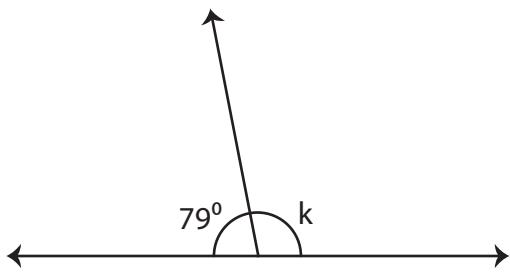
Score _____

Answer key

CS:10

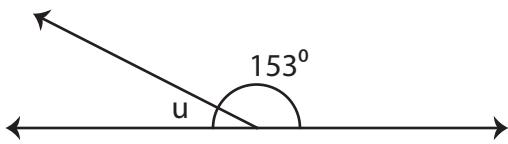
Find the unknown angle.

1)



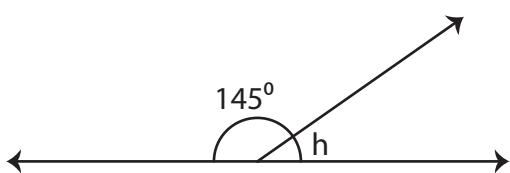
$$m\angle k = \underline{\hspace{2cm}} \textcolor{red}{101^\circ} \underline{\hspace{2cm}}$$

2)



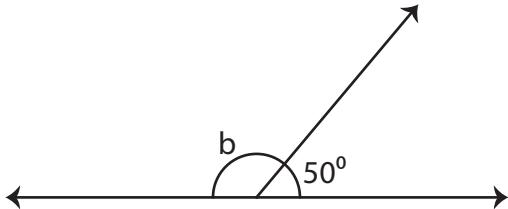
$$m\angle u = \underline{\hspace{2cm}} \textcolor{red}{27^\circ} \underline{\hspace{2cm}}$$

3)



$$m\angle h = \underline{\hspace{2cm}} \textcolor{red}{35^\circ} \underline{\hspace{2cm}}$$

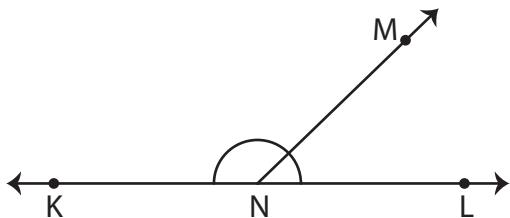
4)



$$m\angle b = \underline{\hspace{2cm}} \textcolor{red}{130^\circ} \underline{\hspace{2cm}}$$

Find the value of x.

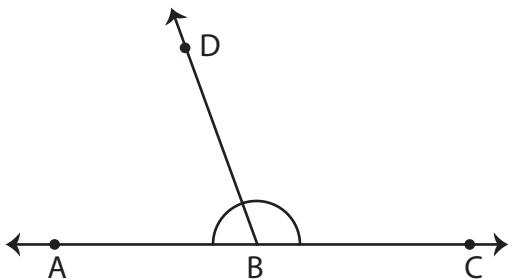
1)



$$m\angle KNM = 136^\circ ; m\angle MNL = (x + 4)^\circ$$

$$x = \underline{\hspace{2cm}} \textcolor{red}{40} \underline{\hspace{2cm}}$$

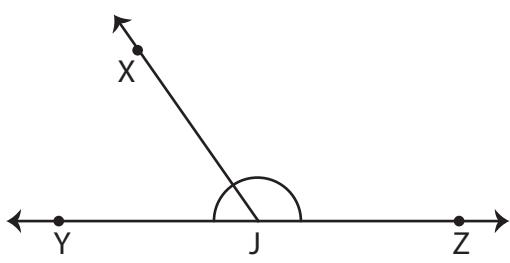
2)



$$m\angle DBC = (x + 1)^\circ ; m\angle ABD = 70^\circ$$

$$x = \underline{\hspace{2cm}} \textcolor{red}{109} \underline{\hspace{2cm}}$$

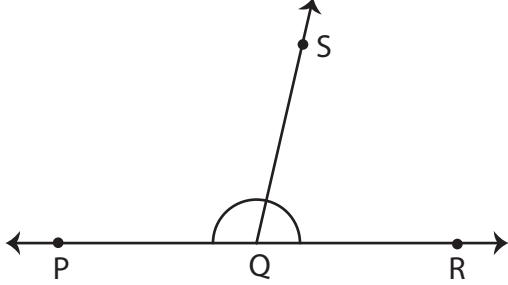
3)



$$m\angle XJY = (x - 10)^\circ ; m\angle XJZ = (2x - 5)^\circ$$

$$x = \underline{\hspace{2cm}} \textcolor{red}{65} \underline{\hspace{2cm}}$$

4)



$$m\angle SQR = (7x)^\circ ; m\angle PQS = (9x + 4)^\circ$$

$$x = \underline{\hspace{2cm}} \textcolor{red}{11} \underline{\hspace{2cm}}$$