



# Supplementary Angles

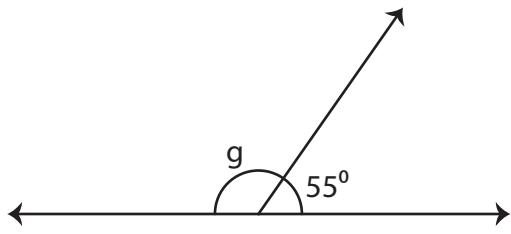
Name \_\_\_\_\_

Score \_\_\_\_\_

CS:11

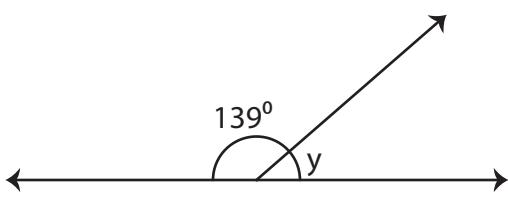
Find the unknown angle.

1)



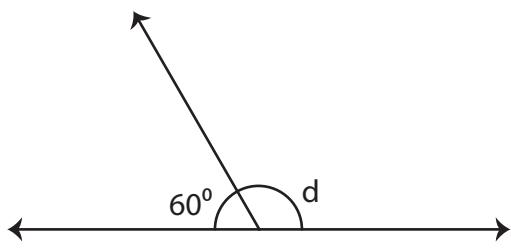
$$m\angle g = \underline{\hspace{2cm}}$$

2)



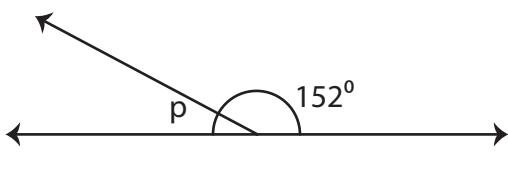
$$m\angle y = \underline{\hspace{2cm}}$$

3)



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

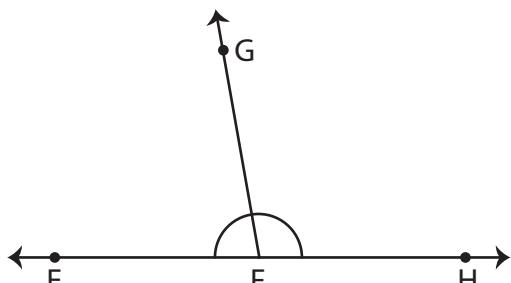
4)



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

Find the value of  $x$ .

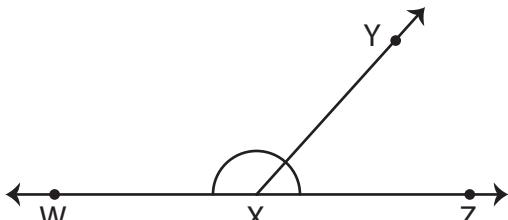
1)



$$m\angle GFH = (x - 1)^\circ ; m\angle EFG = 80^\circ$$

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

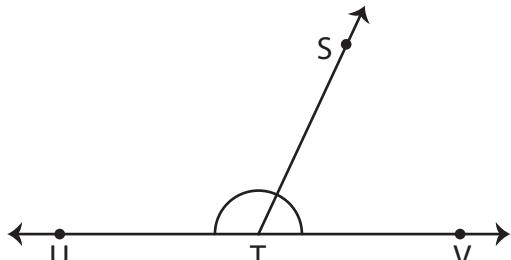
2)



$$m\angle WXY = 132^\circ ; m\angle YXZ = (x + 3)^\circ$$

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

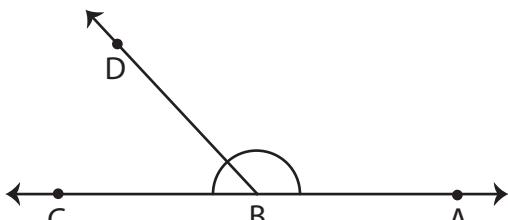
3)



$$m\angle STU = (x + 45)^\circ ; m\angle VTS = (x - 5)^\circ$$

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

4)



$$m\angle ABD = (x + 33)^\circ ; m\angle CBD = (x - 53)^\circ$$

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



# Supplementary Angles

Name \_\_\_\_\_

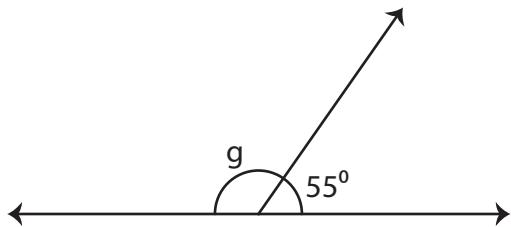
Score \_\_\_\_\_

## Answer key

CS:11

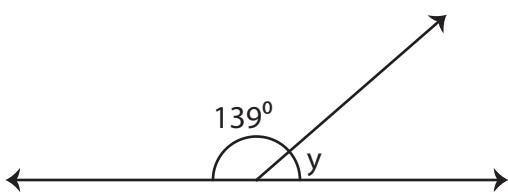
Find the unknown angle.

1)



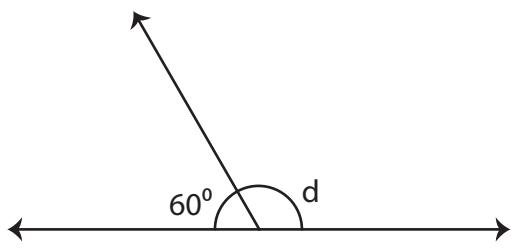
$$m\angle g = \underline{\hspace{2cm}} \textcolor{red}{125^\circ} \underline{\hspace{2cm}}$$

2)



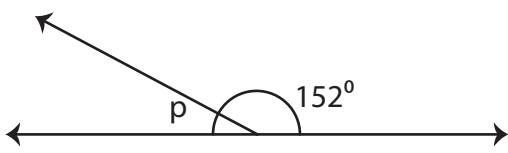
$$m\angle y = \underline{\hspace{2cm}} \textcolor{red}{41^\circ} \underline{\hspace{2cm}}$$

3)



$$m\angle d = \underline{\hspace{2cm}} \textcolor{red}{120^\circ} \underline{\hspace{2cm}}$$

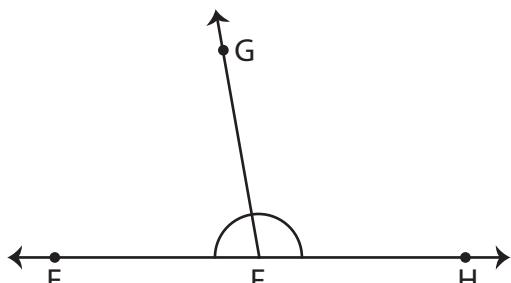
4)



$$m\angle p = \underline{\hspace{2cm}} \textcolor{red}{28^\circ} \underline{\hspace{2cm}}$$

Find the value of x.

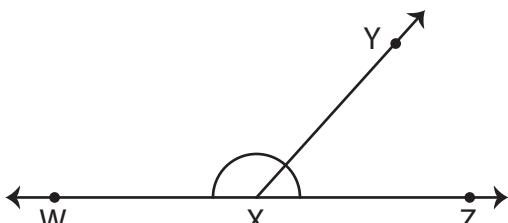
1)



$$m\angle GFH = (x - 1)^\circ ; m\angle EFG = 80^\circ$$

$$x = \underline{\hspace{2cm}} \textcolor{red}{101} \underline{\hspace{2cm}}$$

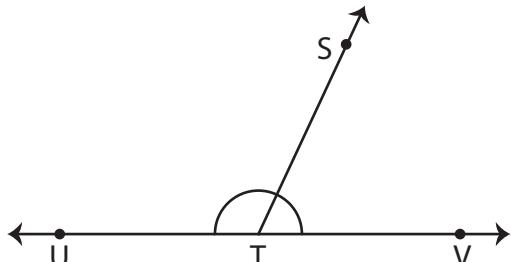
2)



$$m\angle WXY = 132^\circ ; m\angle YXZ = (x + 3)^\circ$$

$$x = \underline{\hspace{2cm}} \textcolor{red}{45} \underline{\hspace{2cm}}$$

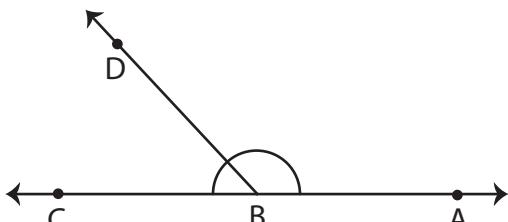
3)



$$m\angle STU = (x + 45)^\circ ; m\angle VTS = (x - 5)^\circ$$

$$x = \underline{\hspace{2cm}} \textcolor{red}{70} \underline{\hspace{2cm}}$$

4)



$$m\angle ABD = (x + 33)^\circ ; m\angle CBD = (x - 53)^\circ$$

$$x = \underline{\hspace{2cm}} \textcolor{red}{100} \underline{\hspace{2cm}}$$