



# Angles on a Straight Line

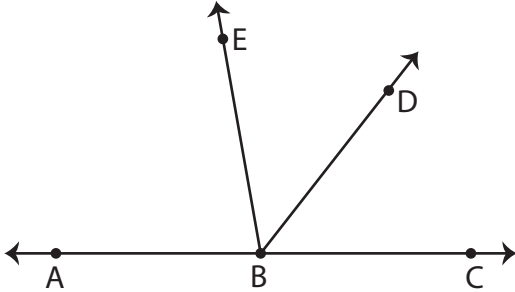
Name \_\_\_\_\_

Score \_\_\_\_\_

PA:04

Find the value of x.

1)

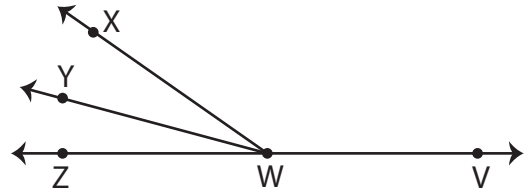


$$m\angle DBE = 48^\circ \quad m\angle DBC = 52^\circ$$

$$m\angle ABE = (7x - 25)^\circ$$

$$x = \text{ ( ) }$$

2)

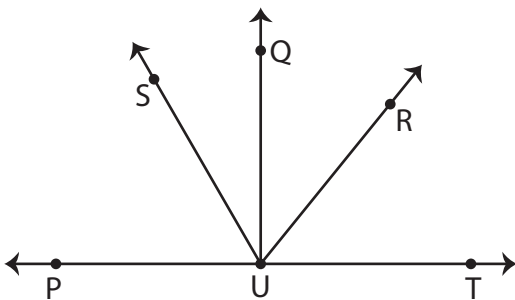


$$m\angle VWX = (x + 4)^\circ \quad m\angle XWY = 20^\circ$$

$$m\angle YWZ = 15^\circ$$

$$x = \text{ ( ) }$$

3)

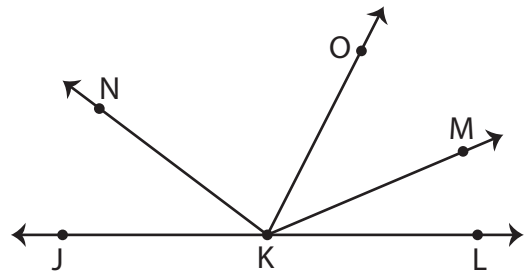


$$m\angle PUS = 60^\circ \quad m\angle QUS = 3x^\circ$$

$$m\angle RUT = 51^\circ \quad m\angle RUQ = 39^\circ$$

$$x = \text{ ( ) }$$

4)

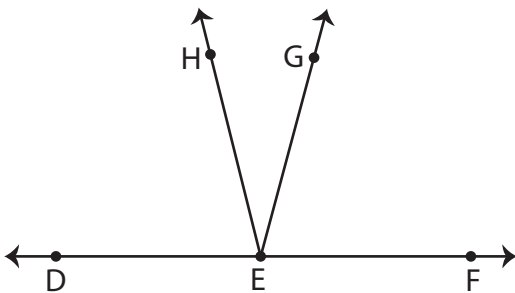


$$m\angle OKM = 40^\circ \quad m\angle JKN = 37^\circ$$

$$m\angle NKO = (3x - 10)^\circ \quad m\angle MKL = 23^\circ$$

$$x = \text{ ( ) }$$

5)

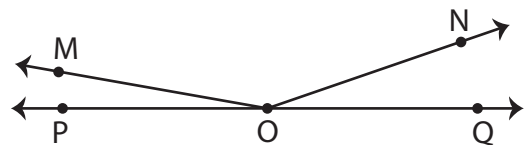


$$m\angle GEF = (x - 27)^\circ \quad m\angle HEG = 29^\circ$$

$$m\angle DEH = 76^\circ$$

$$x = \text{ ( ) }$$

6)



$$m\angle QON = 19^\circ \quad m\angle POM = 10^\circ$$

$$m\angle MON = (2x + 1)^\circ$$

$$x = \text{ ( ) }$$



# Angles on a Straight Line

Name \_\_\_\_\_

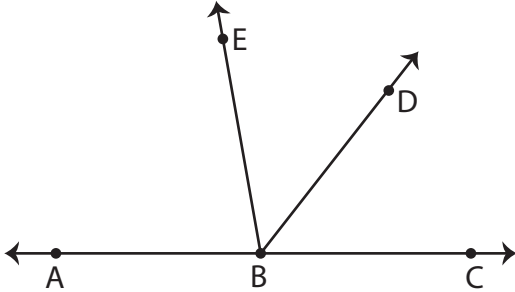
Score \_\_\_\_\_

## Answer key

PA:04

Find the value of x.

1)

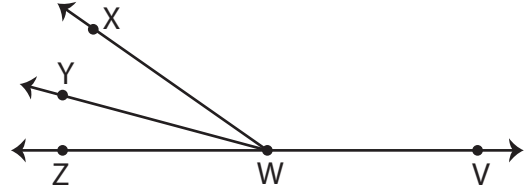


$$m\angle DBE = 48^\circ \quad m\angle DBC = 52^\circ$$

$$m\angle ABE = (7x - 25)^\circ$$

$$x = \mathbf{15}$$

2)

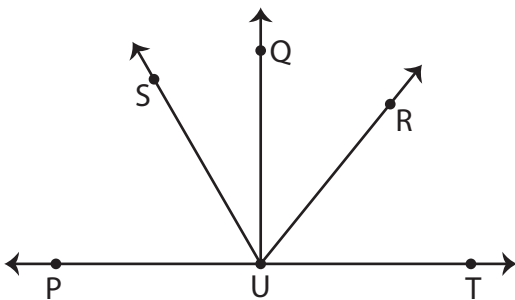


$$m\angle VWX = (x + 4)^\circ \quad m\angle XWY = 20^\circ$$

$$m\angle YWZ = 15^\circ$$

$$x = \mathbf{141}$$

3)

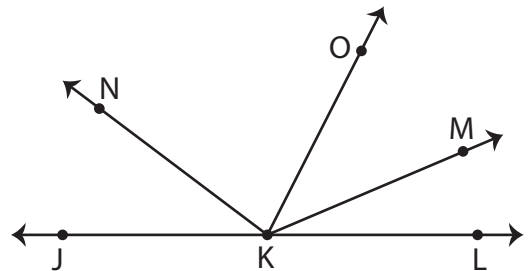


$$m\angle PUS = 60^\circ \quad m\angle QUS = 3x^\circ$$

$$m\angle RUT = 51^\circ \quad m\angle RUQ = 39^\circ$$

$$x = \mathbf{10}$$

4)

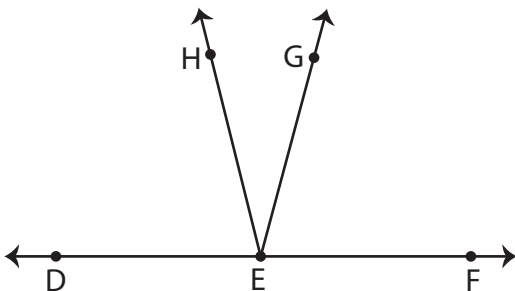


$$m\angle OKM = 40^\circ \quad m\angle JKN = 37^\circ$$

$$m\angle NKO = (3x - 10)^\circ \quad m\angle MKL = 23^\circ$$

$$x = \mathbf{30}$$

5)

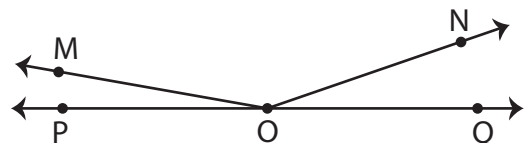


$$m\angle GEF = (x - 27)^\circ \quad m\angle HEG = 29^\circ$$

$$m\angle DEH = 76^\circ$$

$$x = \mathbf{102}$$

6)



$$m\angle QON = 19^\circ \quad m\angle POM = 10^\circ$$

$$m\angle MON = (2x + 1)^\circ$$

$$x = \mathbf{75}$$