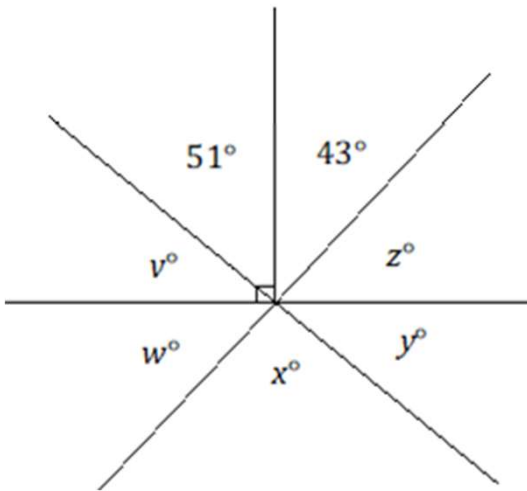
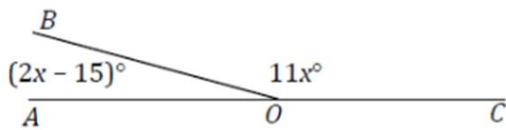


Angle Problems Worksheets (Lines meeting at a Point)

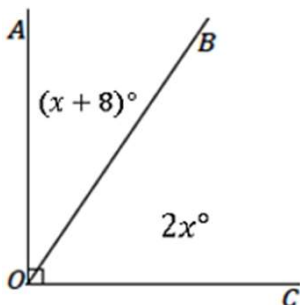
1. Set up and solve an equation to find the value of each variable in the diagram.



2. Set up and solve an equation to find the value of x . Find the measurement of $\angle AOB$ and of $\angle BOC$.

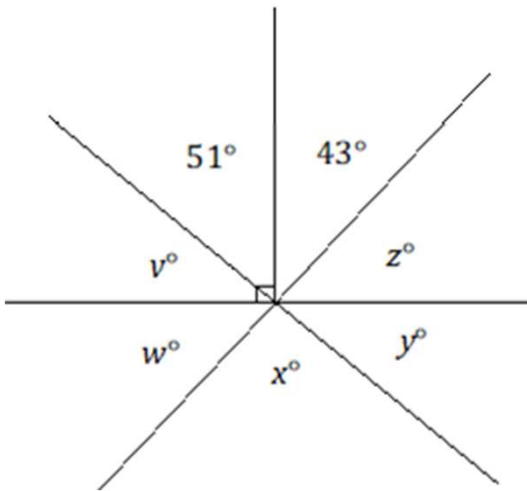


3. Set up and solve an equation to find the value of x . Find the measurement of $\angle AOB$ and of $\angle BOC$.



Angle Problems Worksheets (Lines meeting at a Point)

1. Set up and solve an equation to find the value of each variable in the diagram.



$$v = 90 - 51$$

$$v = 39$$

$$w + 39 + 51 + 43 = 180$$

$$w + 133 = 180$$

$$w + 133 - 133 = 180 - 133$$

$$w = 47$$

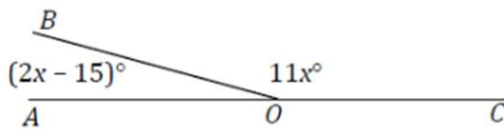
$$x = 51 + 43$$

$$x = 94$$

$$y = 39$$

$$z = 47$$

2. Set up and solve an equation to find the value of x . Find the measurement of $\angle AOB$ and of $\angle BOC$.



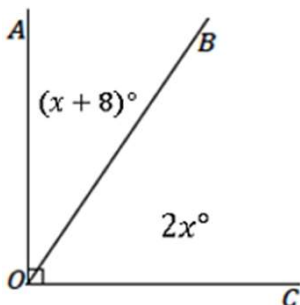
$$(2x - 15) + 11x = 180$$

$$13x - 15 = 180$$

$$13x - 15 + 15 = 180 + 151$$

$$3x = 195 \quad x = 15$$

3. Set up and solve an equation to find the value of x . Find the measurement of $\angle AOB$ and of $\angle BOC$.



$$x + 8 + 2x = 90$$

$$3x + 8 = 90$$

$$3x + 8 - 8 = 90 - 8$$

$$3x = 82 \quad x = 27 \frac{1}{3}$$

The measurement of $\angle AOB$: $(27 \frac{1}{3})^\circ + 8^\circ = 35 \frac{1}{3}^\circ$

The measurement of $\angle BOC$: $2(27 \frac{1}{3})^\circ = 54 \frac{2}{3}^\circ$