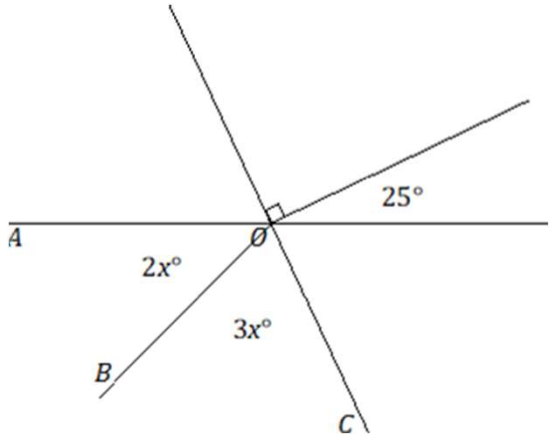
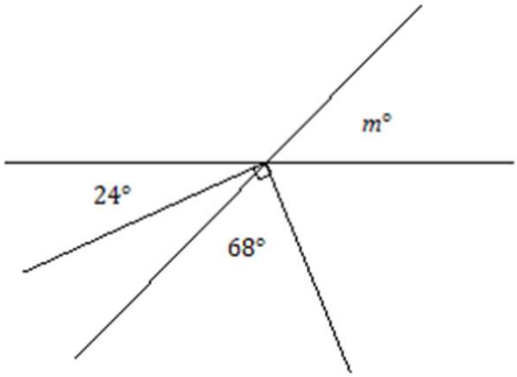
Angle Problems Worksheets
(Lines meeting at a Point)

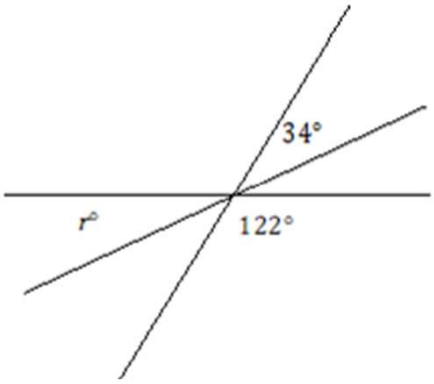
1. Set up and solve an equation to find the value of x. Find the measurements of $\angle AOB$ and $\angle BOC$.



2. Set up and solve an equation to find the value of m.



3. Set up and solve an equation to find the value of r.



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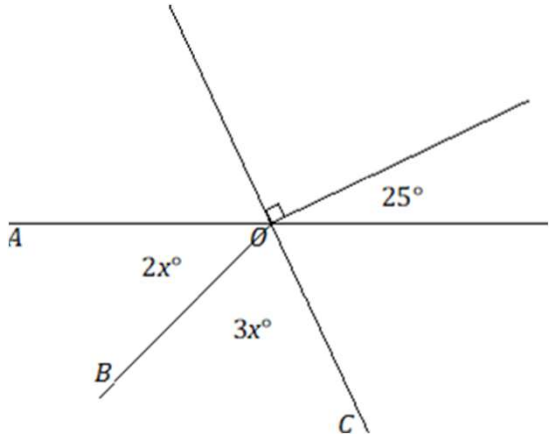
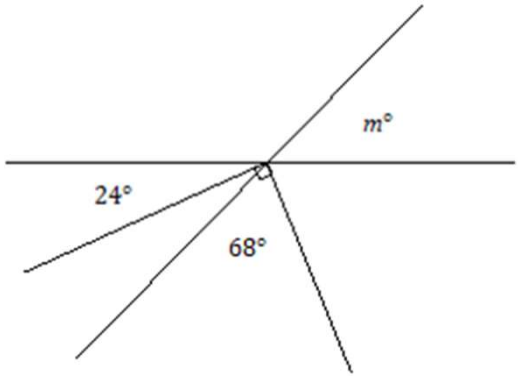


$\angle AOC$ is vertically opposite from the angle formed by adjacent angles 90° and 25°.

$$2x + 3x = 90 + 25$$
$$5x = 115$$
$$x = 23$$

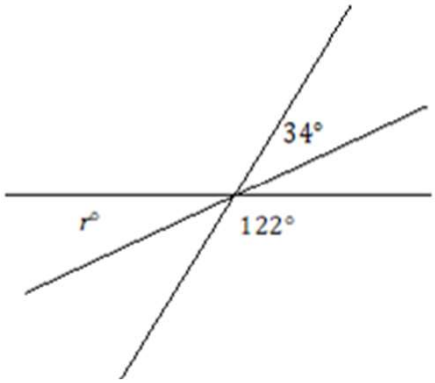
$$\angle AOC = 2(23)° = 46°$$
$$\angle BOC = 3(23)° = 69°$$

2. Set up and solve an equation to find the value of m.



$$(90 - 68) + 24 = m$$
$$\boldsymbol{m} = 46$$

3. Set up and solve an equation to find the value of $\boldsymbol{r}$.



$$r + 122 + 34 = 180$$
$$r + 156 = 180$$
$$r + 156 - 156 = 180 - 156$$
$$r = 24$$