Name:_____ Period:_____ Date:_____

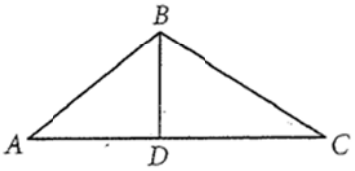
1.5 Measuring and Constructing Angles

All angle measures are in degrees.

1. Two angles are _____ when they have the same measure.

2. Mark the figure with the given information.

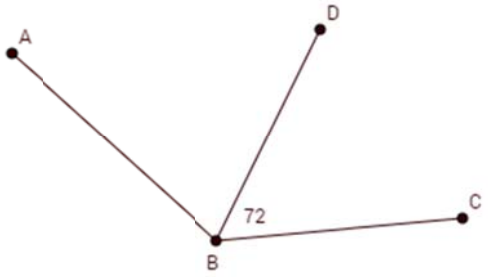
$m\angle ADB = 90°,\ AD = BD,\ \angle DAB \cong \angle DBA$



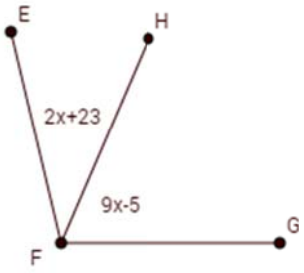
3. What is the measure of the angle made by the hands of a clock at 4 o'clock?

4. What is the measure of the angle made by the hands of a clock at 3:30?

5. $m\angle ABC = 114$, find $m\angle ABD$.

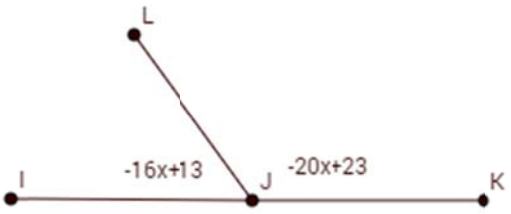


6. $m\angle EFG = 95$. Find $m\angle EFH$ and $m\angle HFG$.

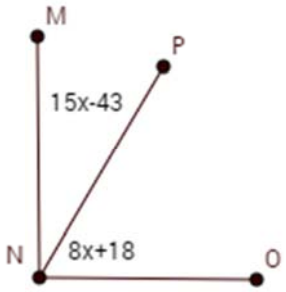


7. Solve for x. $2|x - 3| = 12$

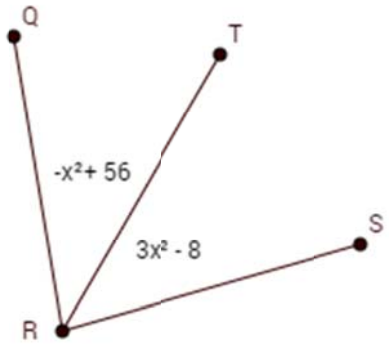
8. $\angle IJK$ is a straight angle. Find $m\angle IJL$ and $m\angle LJK$.



9. $\angle MNO = 90$. Find $m\angle MNP$ & $m\angle ONP$.



10. $\overline{RT}$ is an angle bisector. Find $m\angle QRS$.



11. In $\angle ABC$, $\overrightarrow{BX}$ is in the interior of the angle, $m\angle ABX$ is 12 more than 4 times $m\angle CBX$, and $m\angle ABC = 92$.

a) Draw a diagram of the situation.

b) Find $m\angle ABX$ and $m\angle CBX$.

12. Is it possible for a straight angle to be made up of two obtuse angles? Explain why or why not.