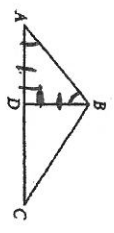
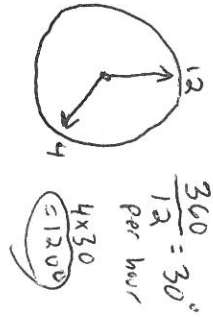


1.5 Measuring and Constructing Angles
All angle measures are in degrees.

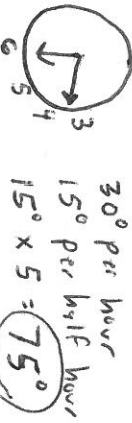
- Two angles are complement when they have the same measure.
- Mark the figure with the given information.
 $m\angle ADB = 90^\circ$, $AD = BD$, $\angle DAB \cong \angle DBA$



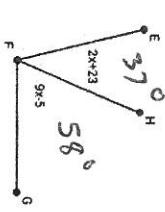
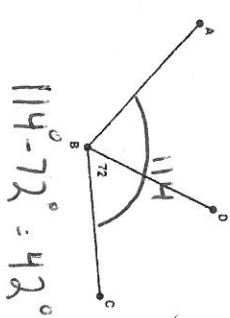
- What is the measure of the angle made by the hands of a clock at 4 o'clock?



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

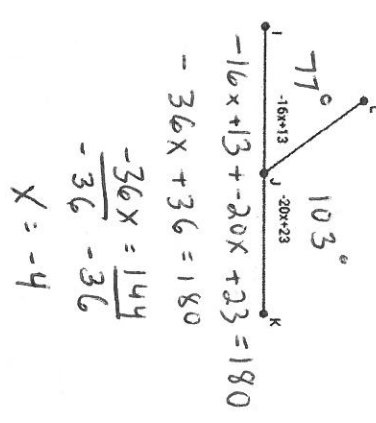


- $m\angle ABC = 114$, find $m\angle ABD$.
- $m\angle EFG = 95$. Find $m\angle EFH$ and $m\angle HFG$.

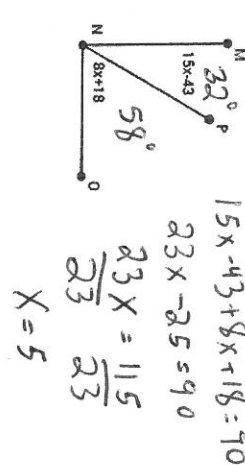


$2x + 23 + 9x - 5 = 95$
 $11x + 18 = 95$
 $-18 \quad -18$
 $11x = 77$
 $\frac{11x}{11} = \frac{77}{11}$
 $x = 7^\circ$

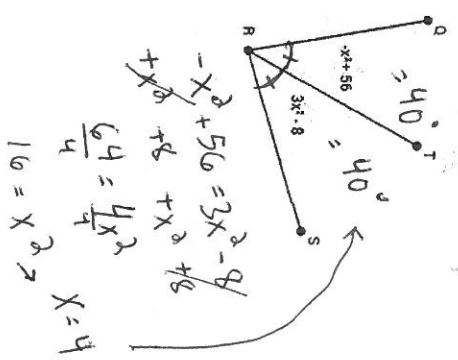
- $\angle LJK$ is a straight angle. Find $m\angle LJI$ and $m\angle LJK$.



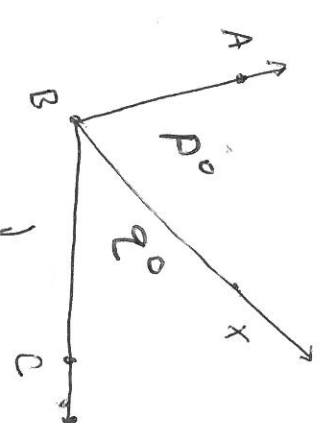
- $\angle MNO = 90$. Find $m\angle MNP$ & $m\angle ONP$.



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



- In $\triangle ABC$, \overline{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 $m\angle CBX$.



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

$p + q = 92$
 $p + q = 92$
 $12 + 4q + q = 92$
 $5q = 80$
 $q = 16$
 $p = 76$
 $m\angle ABX = 16^\circ$
 $m\angle CBX = 76^\circ$

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

$2|x - 3| = 12$
 $|x - 3| = 6$
 $x - 3 = 6$
 $x = 9$
 $x - 3 = -6$
 $x = -3$