1.5 Measuring and Constructing Angles

All angle measures are in degrees.

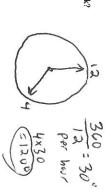
1. Two angles are COPP (14 M) when they have the same measure.

2. Mark the figure with the given information.

 $m\angle ADB = 90^{\circ}$ , 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?



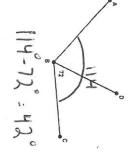
4. What is the measure of the angle made by the hands of a clock at 3:30?



15° per hour 5° × 5 - (75°

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

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



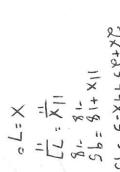
7. Solve for x. 
$$2|x-3|=12$$

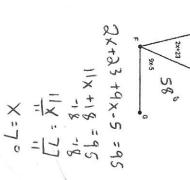
$$|X-3|=6$$

$$X-3=6$$

$$X=9$$

$$X=7$$







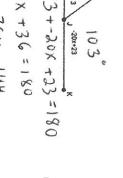
$$-16 \times +13 + -30 \times +33 = 180$$

$$-36 \times +36 = 180$$

$$-36 \times +36 = 144$$

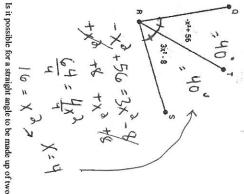
$$-36 \times +36 = 36$$

9. \(\angle MNO = 90\). Find \(m \angle MNP & m \angle ONP\) 15x-43+8x-18=70 23x-25=90 23x=115 23 23

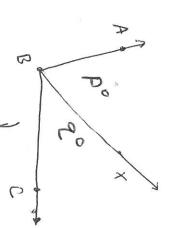


11. In 
$$\angle ABC$$
,  $\overline{BX}$  is in the map  $ABX$  is 12 more than a

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



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