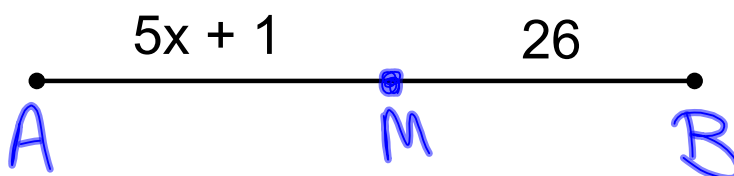


9-18-14

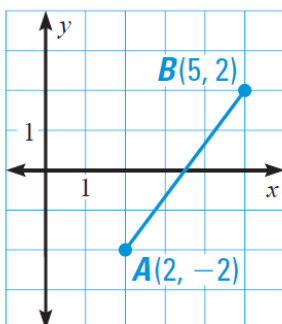
M bisects  $\overline{AB}$ . What is the value of  $x$ ?

Warm up assignment:  
pg. 197 #27-30

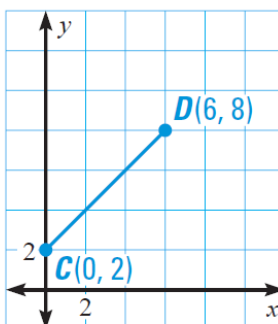
**Distance Formula** Find the distance between the points. Round your answer to the nearest tenth.



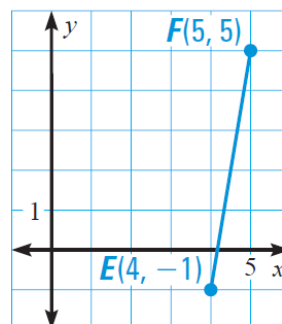
27.



28.



29.



HW Check:

2.1 pg. 57-59

#17-23 odd, 24, 27-35 odd, 42, 53

## 2.2 - Angles Bisectors

Bisect - cut into 2 equal pieces

Angle Bisectors - a ray that cuts an angle into 2 equal angles



Ex. 1  $\overrightarrow{BD}$  bisects  $\angle ABC$ , and  $m\angle ABC = 110^\circ$ .

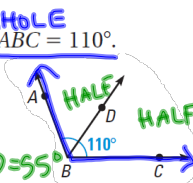
Find  $m\angle ABD$  and  $m\angle DBC$ .

$$\frac{\text{WHOLE}}{2} = \text{HALF}$$

$$\frac{110}{2} = 55^\circ$$

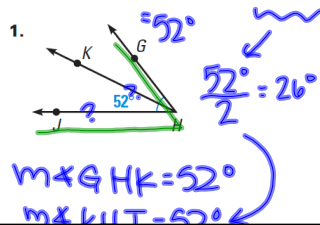
$$m\angle ABD = 55^\circ$$

$$m\angle DBC = 55^\circ$$

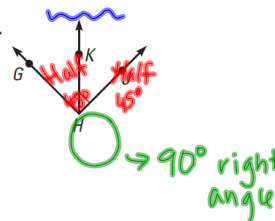


$\overrightarrow{HK}$  bisects  $\angle GHJ$ . Find  $m\angle GHK$  and  $m\angle KHJ$ .

1.



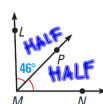
2.



Ex. 2  $\overrightarrow{MP}$  bisects  $\angle LMN$ , and  $m\angle LMP = 46^\circ$ .

a. Find  $m\angle PMN$  and  $m\angle LMN$ .

b. Determine whether  $\angle LMN$  is acute, right, obtuse, or straight. Explain.

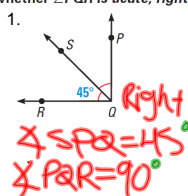


$$m\angle PMN = 46^\circ$$

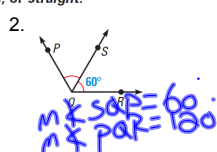
$$m\angle LMN = 92^\circ$$

$\overrightarrow{QS}$  bisects  $\angle PQR$ . Find  $m\angle SQP$  and  $m\angle PQR$ . Then determine whether  $\angle PQR$  is acute, right, obtuse, or straight.

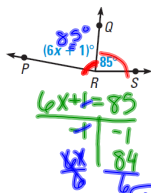
1.



2.



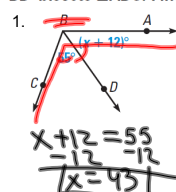
Ex. 3  $\overrightarrow{RQ}$  bisects  $\angle PRS$ . Find the value of  $x$ .



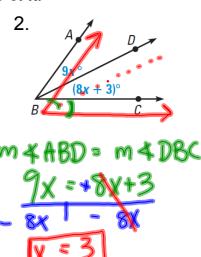
P  
E  
M  
D  
A  
S

$\overrightarrow{BD}$  bisects  $\angle ABC$ . Find the value of  $x$ .

1.



2.



Due tomorrow:

2.2 pg. 64-66

#9-21 odd, 28-30, 33, 38-44

Quiz on:

bisecting  
distance  
midpoint } tomorrow