**TOPIC 2-4: Angle Addition & Angle Bisector** 





PRACTICE 2 If  $m \angle AOC = 70^\circ$ ,  $m \angle AOB = (x + 10)^\circ$ , and  $m \angle BOC = x^\circ$ , find  $m \angle BOC$ 





TERM	DEFINITION	SKETCH
Angle Bisector	A line, ray, or segment that divides an angle into 2 angles.	40 degrees B 40 degrees C

## **PRACTICE 3**

**FG** bisects  $\angle$ EFH and  $\angle$ IFH is a straight angle. If m $\angle$ EFG = 50°, find m $\angle$ GFH.



What other angle measures can you find? Use the image to the right for Practice 4 &5.

**FG** bisects  $\angle$ EFH and  $\angle$ IFH is a straight angle.



PRACTICE 4 If m $\angle$ EFG = (5x - 10)° and m $\angle$ GFH = (3x + 25)°, find m $\angle$ HFE.

PRACTICE 5  
If m∠GFH = 
$$(3x + 20)^\circ$$
 and m∠EFH =  $(4x + 80)^\circ$ , find m∠EFG.