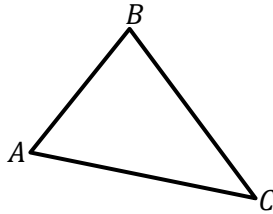


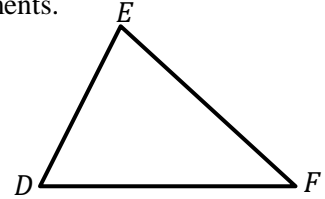
Math 2 Unit 4 Worksheet 3
Angle Bisectors

Name: _____
 Date: _____ Per: _____

1. a) Draw the angle bisector of $\angle A$.
 b) Mark the diagram showing congruent angles.



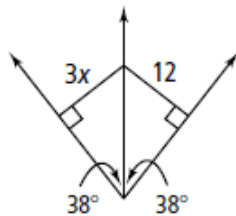
2. a) Draw the perpendicular bisector of \overline{DF} .
 b) Mark your diagram showing right angles and congruent segments.



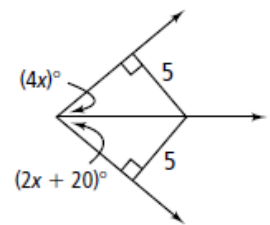
3. If a point is on the _____ of an angle,
 then the point is _____ from the side of the angle.

[4-5] Find the value of x .

4. $x =$ _____

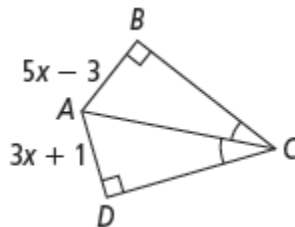


5. $x =$ _____

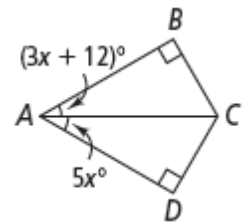


[6-7] Find the indicated values of the variables and measures.

6. $x =$ _____
 $BA =$ _____
 $DA =$ _____

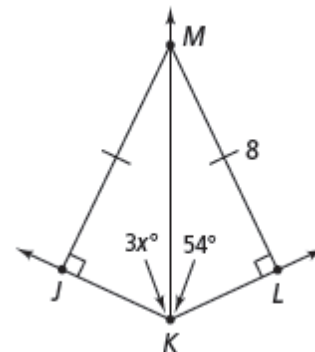


7. $x =$ _____
 $\angle BAC =$ _____
 $\angle DAC =$ _____

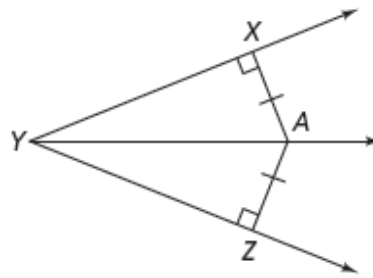


[8-13] Use the figure to the right to answer the following questions.

8. How far is M from \overline{KL} ?
 9. How far is M from \overline{JK} ?
 10. How is \overline{KM} related to $\angle JKL$?
 11. Find the value of x .
 12. Find $\angle MKJ$.
 13. Find $\angle JMK$ and $\angle LMK$.



14. Is A on the angle bisector of $\angle XYZ$? Explain.

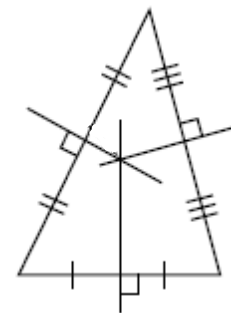


[15-16] Use the figure on the right to answer the following questions.

15. a) Point of concurrency is called _____.
Incenter / Circumcenter

b) This is the center of the _____.
Inscribed Circle / Circumscribed Circle

c) Use a compass to sketch the circle.



16. a) Point of concurrency is called _____.
Incenter / Circumcenter

b) This is the center of the _____.
Inscribed Circle / Circumscribed Circle

c) Use a compass to sketch the circle.

