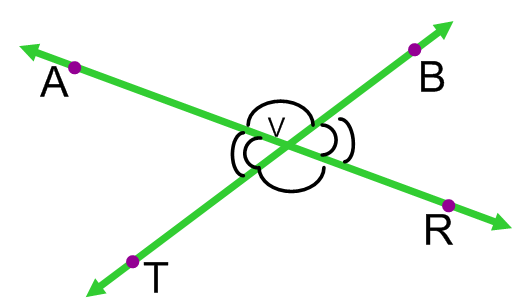
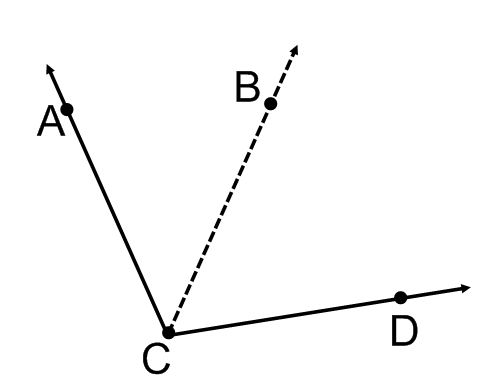
**C:\Users\Kelly\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\ORFY33ML\MC900434399[1].wmfAngle Relationships: Notes**

**Justifications**

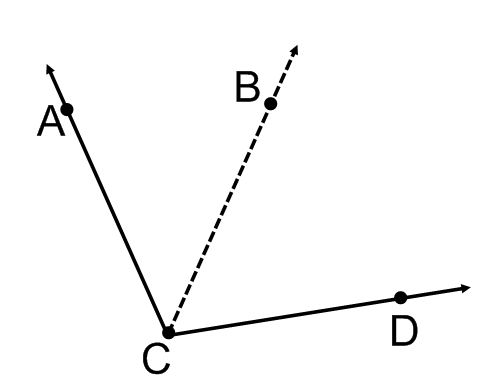
***Justification:*** *Vertical angles are congruent!*

**1.** Name the vertical angles which are congruent.

**2.** What is an angle bisector? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 If is an angle bisector, state what is true about the figure.

***Justification:*** *Definition of Angle Bisector*

**3.** Use the same figure, but DO NOT assume Ray CB is an angle bisector: If *m<ACB=64ᵒ* and *m<BCD=33ᵒ* find the *m<ACD*.

***Justification:*** *Angle Addition*

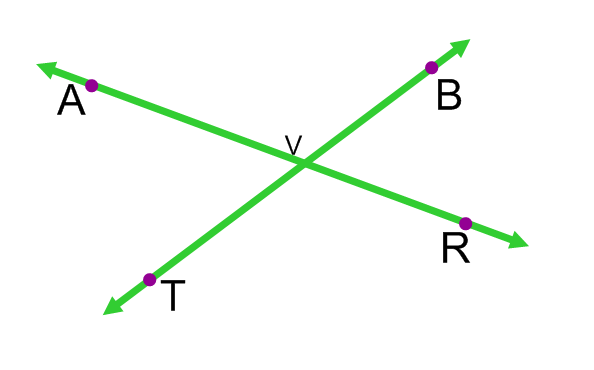
**4.** Adjacent angles are angles which share a common vertex and a common side, we commonly say angles next to each other. Draw an adjacent angle to <ABC, which shares vertex B and side .

**5.** Straight Angle measures \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Draw an example of straight angle <NJB.

***Justification:*** *Definition of straight angle.*

**6.** Linear Pairs

***Justification:*** *Linear Pairs are Supplementary*

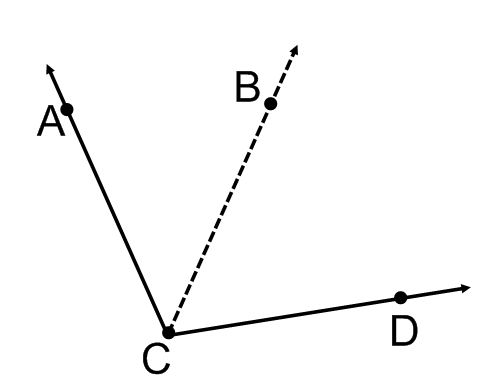


**7.** Draw which intersect at X.

***Justification:*** *Definition of Perpendicular*

**8.** Draw as a right angle.

***Justification:*** *Definition of Right Angle*



**9.** **Using Justifications:**

Given: is an angle bisector

Prove or Show: 2 and

**Angle Relationships: Examples**

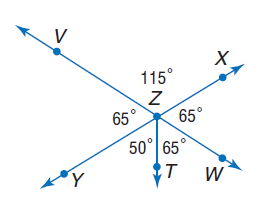
**Directions:**

*Draw a picture if one is not provided and find the measure of the angle.**Justify your reasoning!*

**1.** If <1 and <2 are a linear pair and *m<1= 78ᵒ,* find the m<2.

**2.** If <1 and <2 are vertical angles and *m<1= 78ᵒ*, find the m<2.

**Directions**: Find the measurement of the given angle.

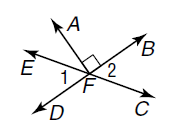
**Use the figure to the right. Show Geometry and justify your SET UP!**

**3.** m<VZT **4.** m<XZT

**5**. m<WZY **6.** m<VZW

**Directions**: Find the measurement of the given angle. If the m<1=65ᵒ

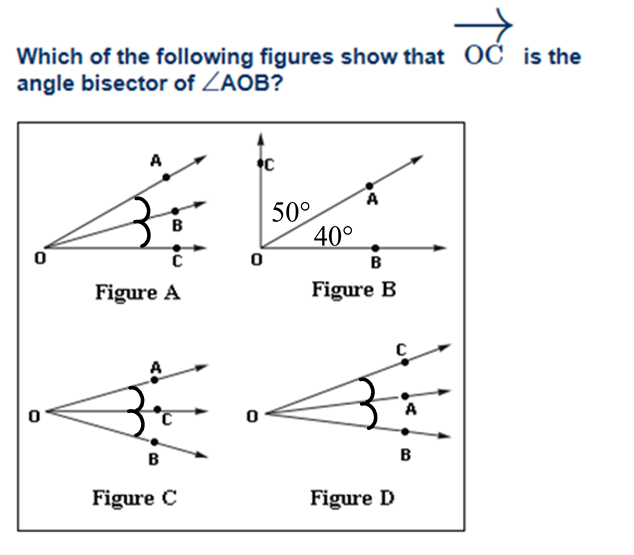
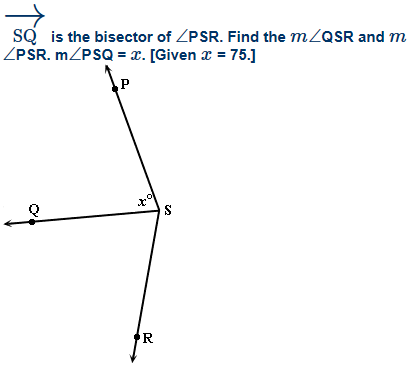
**Use the figure to the right. Show Geometry and justify your SET UP!**

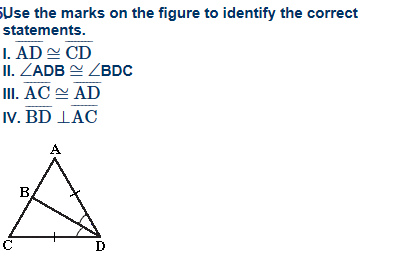
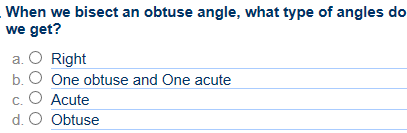


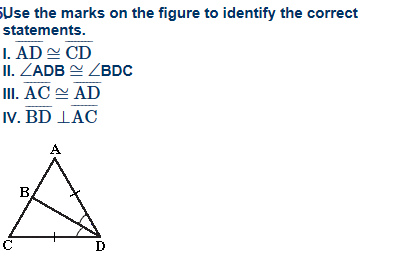
**7.** m<2 **8.** m<DFC

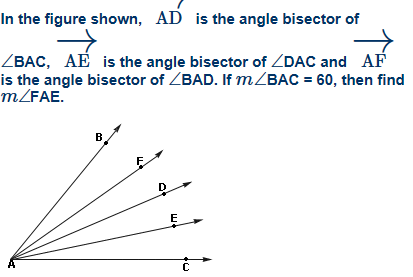
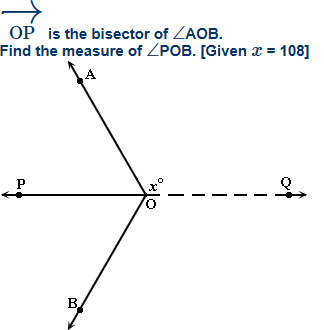
**9.** m<EFB **10.** m<EFA

**Show Geometry and justify your SET UP!**

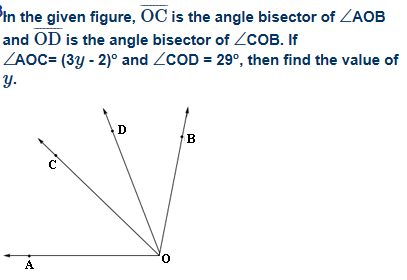
11. 12.

13. 14.





15. 16.

17.