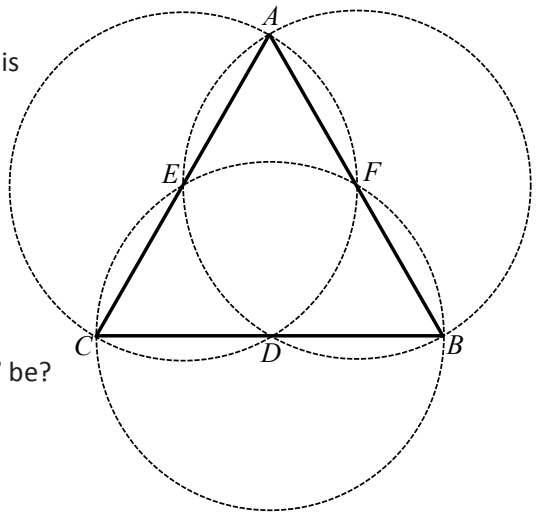
Name: _____ Module 1: Lesson 3

Date: _____ Period: _____ Bisect an Angle

Warm-Up

In the following figure, circles have been constructed so that the endpoints of the diameter of each circle coincide with the endpoints of each segment of the equilateral triangle.



1. What is special about points D, E, and F? Explain how this can be confirmed with the use of a compass.

2. Draw $\overline{DE}$, $\overline{EF}$, and $\overline{FD}$. What kind of triangle must $\triangle$ DEF be?

3. What is special about the four triangles within $\triangle$ ABC?

4. How many times greater is the area of $\triangle$ ABC than the area of $\triangle$ CDE?

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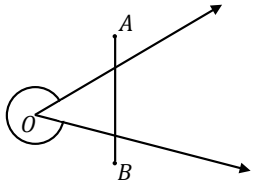
Define the terms **angle, interior of an angle,** and **angle bisector**.



Angle: An *angle* is _____

_____

_____

Interior: The *interior of angle* _____

_____

_____

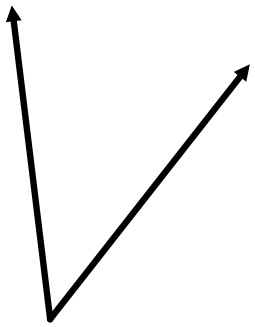
Angle Bisector: If C is in the interior of $\angle AOB$, _____

_____

_____

When we say $\boldsymbol{m\angle AOC = m\angle COB}$, we mean that the angle measures are equal.

Bisect an Angle:



What steps did you take to bisect an angle? List the steps below:

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____

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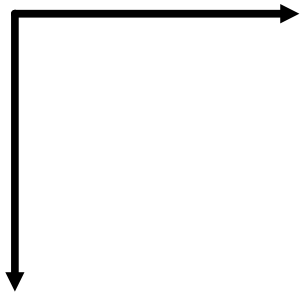
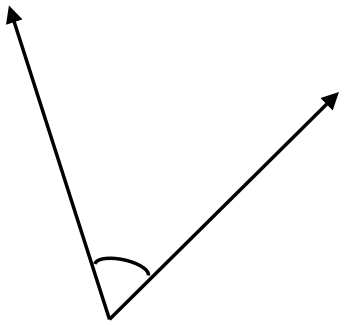
Module 1: Lesson 3 Classwork

Bisect an Angle

1. Bisect the angle.



2. Bisect the angle.



What steps did you take to bisect an angle? List the steps below:

_____

_____

_____

_____

_____

_____

_____

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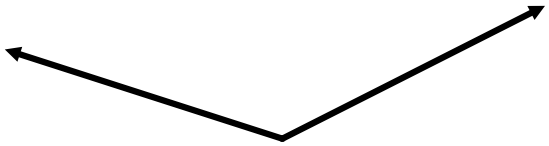
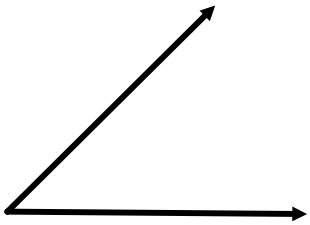
<u>Review from yesterday:</u>

Bisect the following angle:



How to copy an angle:



Steps needed

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____

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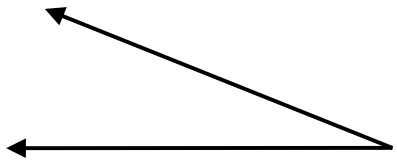
1. **Copy** the angle below.



2. **Bisect** the angle below.