Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_

Aim: What is the relationship between the size of arcs and angles?

If two lines intersect inside a circle, the **measure of the angle** equals **one-half the sum of the two arcs**. (add)

Solve for x.



If two lines intersect outside of the circle, the **measure of the angle** equals **one-half the difference of the two arcs**. (subtract)

**Solve for x.**



**Solve for x.**

