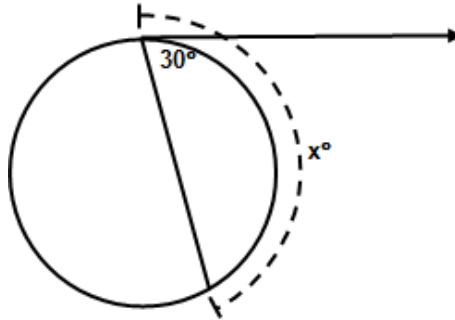


**TOPIC 17-2: ANGLES FORMED BY SECANTS AND TANGENTS**

**THEOREM:** If a secant and a tangent intersect at the point of tangency, then the measure of each angle formed is \_\_\_\_\_ the measure of \_\_\_\_\_.

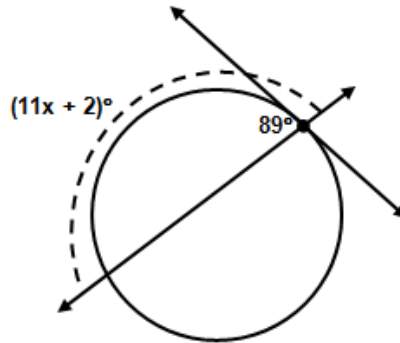
Find the value of 'x'.

x = \_\_\_\_\_



Find the value of 'x'.

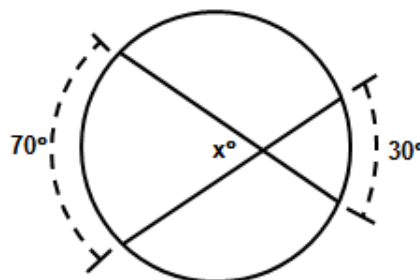
x = \_\_\_\_\_



**THEOREM:** If two secants intersect in the interior of a circle, then the measure of the angle formed is \_\_\_\_\_ of the measures of the arcs intercepted by the angle and its vertical angle.

Find the value of 'x'.

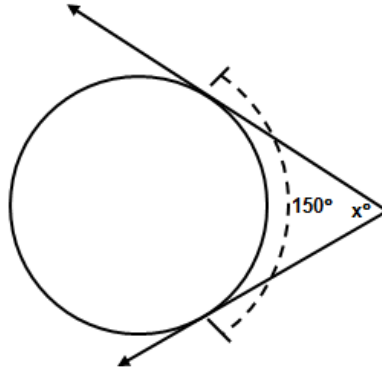
x = \_\_\_\_\_



**THEOREM**: If two secants, a secant and a tangent, or two tangents intersect in the exterior of a circle, then the measure of the angle formed is \_\_\_\_\_ of the measures of the intercepted arcs.

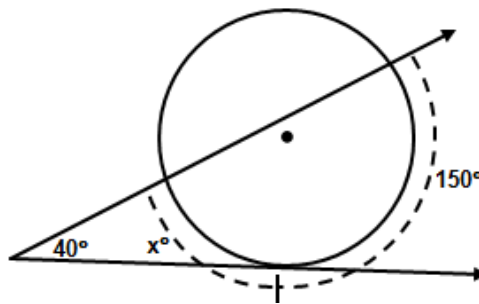
Find the value of 'x'.

x = \_\_\_\_\_



Find the value of 'x'.

x = \_\_\_\_\_



Find the value of 'x'.

x = \_\_\_\_\_

