

# NAME: Adrian S. S. DATE: \_\_\_\_\_ ANGLES FORMED BY SECANTS & TANGENTS Extra Practice

1. Two tangents,  $\overline{EA}$  and  $\overline{EC}$ , meet at point E and are tangent to circle O at points A and C respectively. If  $m\angle C = 120^\circ$ , find  $m\angle A$ .



$$m\angle A = \frac{360 - 120}{2}$$

$$m\angle A = 120^\circ$$

2. In the diagram below, tangent  $\overline{EA}$  and secant  $\overline{EBC}$  are drawn to circle O from external point E, such that  $m\angle AEC = m\angle C$ .

If  $m\angle C = 120^\circ$ , determine and state  $m\angle A$ .

$$120 + 120 + x = 360$$

$$x = 360 - 240$$

$$x = 120$$

$$m\angle A = \frac{360 - 120}{2}$$

$$m\angle A = 120^\circ$$



3. In the accompanying diagram,  $\overline{PA}$  and  $\overline{PC}$  are secants to the circle. If  $m\angle P = 40^\circ$  and  $m\angle A = 120^\circ$ , find  $m\angle C$ .



$$40 = \frac{120 - x}{2}$$

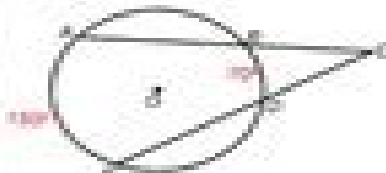
$$80 = 120 - x$$

$$x = 40$$

4. Two tangents and a secant are drawn to circle O from an external point P. If  $m\angle P = 40^\circ$ , find  $m\angle A$ .



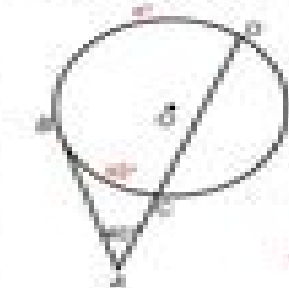
5. In the accompanying diagram,  $\overline{MA}$  and  $\overline{MC}$  are tangents to circle O from an external point M. If  $m\angle A = 120^\circ$  and  $m\angle C = 20^\circ$ , find  $m\angle M$ .



$$m\angle M = \frac{360 - 120 - 20}{2}$$

$$m\angle M = 110^\circ$$

6. A line is drawn tangent to circle O at point A. If  $m\angle A = 40^\circ$ , find  $m\angle C$ .



$$40 = \frac{120 - x}{2}$$

$$80 = 120 - x$$

$$x = 40$$

$$m\angle C = 40^\circ$$

Detailed answer keys!

# Secant Tangent Angles Lesson Plan

**Great Minds**



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