## BLM 10-3

## Section 10.1 Extra Practice

- **1.** Calculate the measure of  $\angle ABC$  and  $\angle AEC$ . Explain how you got your answers.
  - **a)**  $\angle ADC$  is a(n) \_\_\_\_\_\_ angle. *(inscribed or central)*

 $\angle ABC \text{ and } \angle AEC \text{ are } \_$  angles. *(inscribed or central)* 



Inscribed angles are \_\_\_\_\_\_ the size of central angles.

 $\angle ABC$  and  $\angle AEC = \angle ADC \div 2$ 







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BLM 10-3 (continued)

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- **2.** Calculate the length of chord BC in each of the following.
  - **a)**  $\angle$ BDC is a \_\_\_\_\_\_ angle that measures \_\_\_\_\_°.

Since BC is the diameter and central angle,  $\angle BAC$  is the

\_\_\_\_\_ angle that measures \_\_\_\_\_\_°.

Use the Pythagorean relationship to find the length of BC.

 $AB^2 + AC^2 = BC^2$ 





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 $\Delta$ ACD is a \_\_\_\_\_\_ triangle, so you can use the Pythagorean relationship to find the length of AD.

 $CD^2 + AC^2 = AD^2$ 

