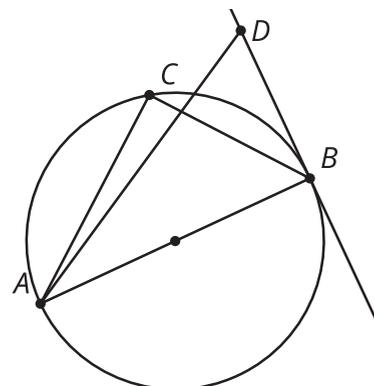
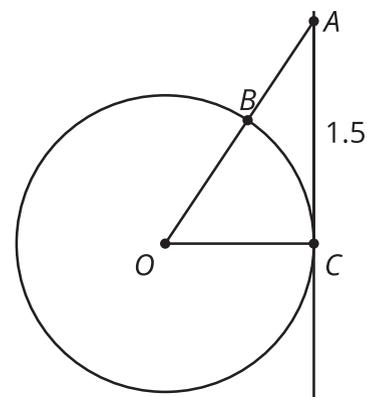


Lesson 3 Practice Problems

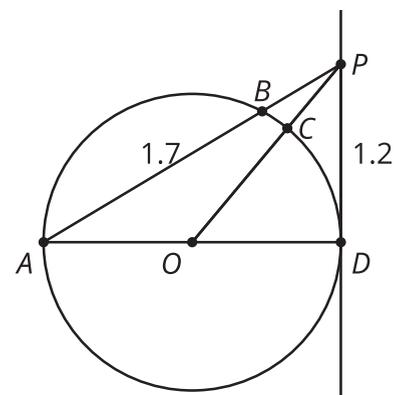
1. Line BD is tangent to a circle with diameter AB . Explain why the measure of angle BCA must equal the measure of angle ABD .



2. Line AC is perpendicular to the circle centered at O with radius 1 unit. The length of AC is 1.5 units. Find the length of segment AB .

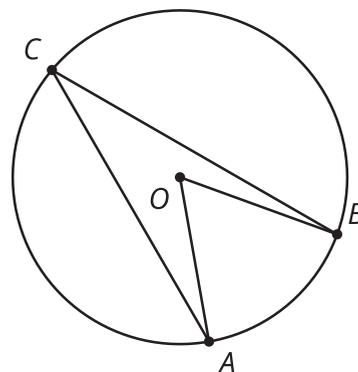


3. *Technology required.* Line PD is tangent to a circle of radius 1 inch centered at O . The length of PD is 1.2 inches. The length of AB is 1.7 inches. Which point on the circle is closest to point P ?



- A. point A
- B. point B
- C. point C
- D. point D

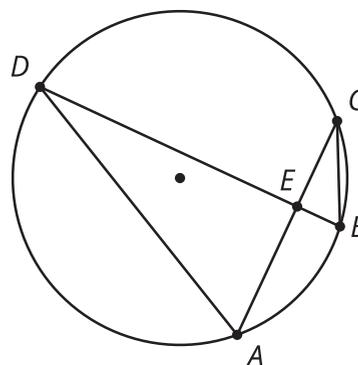
4. The arc from A to B not passing through C measures 50 degrees. Select all the true statements.



- A. Angle BCA measures 50 degrees.
- B. Angle BCA measures 25 degrees.
- C. Angle BOA measures 50 degrees.
- D. The arc from B to C not passing through A measures 180 degrees.
- E. Angles CBO and CAO are congruent.

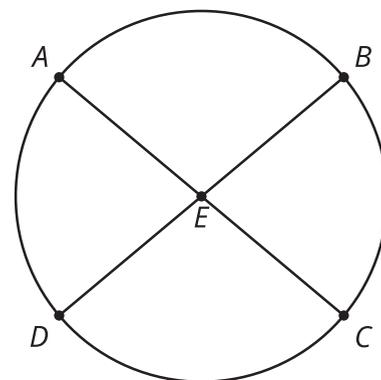
(From Unit 7, Lesson 2.)

5. Chords AC and DB intersect at point E . List 3 pairs of angles that *must* be congruent.



(From Unit 7, Lesson 2.)

6. The image shows a circle with diameters AC and BD . Prove that chords BC and AD (not drawn) are congruent.



(From Unit 7, Lesson 1.)

7. The line represented by $y + 3 = -3(x + 6)$ is transformed by the rule $(x, y) \rightarrow (-x, -y)$. What is the slope of the image?

- A. 3
- B. $\frac{1}{3}$
- C. $-\frac{1}{3}$
- D. -3

(From Unit 6, Lesson 12.)