15.4 Show all Work.

For each figure, determine the value of the variable and the indicated lengths by applying the **Chord-Chord Product Theorem.**



For each figure, determine the value of the variable and the indicated lengths by applying the **Secant-Secant Product Theorem.**



For each figure, determine the value of the variable and the indicated length by applying the **Secant-Tangent Product Theorem.**



15.5

Use the Intersecting Chords Angle Measure Theorem to find the measure of each angle.



Use the Tangent-Secant Interior Angle Measure Theorem to find the measure of the arc or angle.



Use the Tangent-Secant Exterior Angle Measure Theorem to find the value of x.



For each figure, determine the measure of the intercepted minor arc.



16.1

For 1-2, find the circumference and area of the circle. Leave your answers in terms of π .



- 3. Find the circumference of a circle with diameter 7 cm.
- 4. Find the area of a circle with diameter 7 cm.
- 5. The circumference of a tree is 20π ft. Find the diameter.

6. Find the radius of a circle with a circumference of 12π feet.

7. Find the diameter of a circle with area 25π feet².