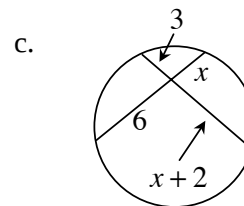
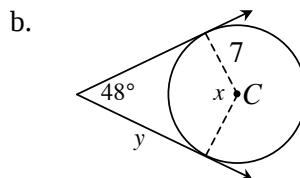
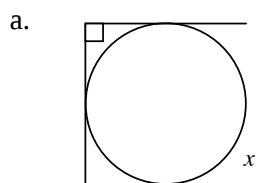
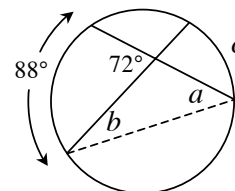




- 11-96. Solve for the variables in each of the diagrams below. Assume point C is the center of the circle in part (b).



- 11-97. In part (c) of problem 11-96, you used the relationship between the segment lengths formed by intersecting chords to find a missing length. But how are the arc measures of two random intersecting chords related? **Examine** the diagram at right.



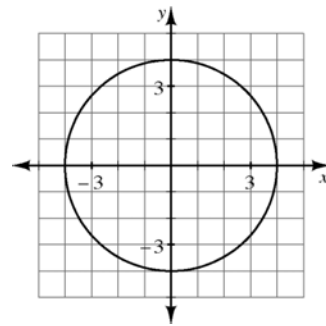
- Solve for a , b , and c using what you know about inscribed angles and the sum of the angles of a triangle.
- Compare the result for c with 88° and 72° . Is there a relationship?

- 11-98. Perhaps you think the Earth is big? Consider the sun!

- Assume that the radius of the Earth is 4000 miles. The sun is approximately 109 times as wide. Find the sun's radius.
- The distance between the Earth and the moon is 238,900 miles. Compare this distance with the radius of the sun you found in part (a).
- If the sun were hollow, how many Earths would fill the inside of it?



- 11-99. Write the equation for the graph at right.

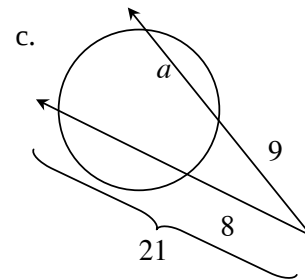
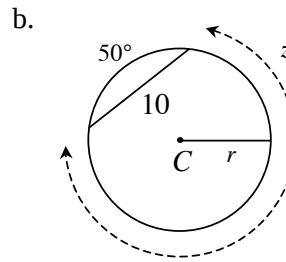
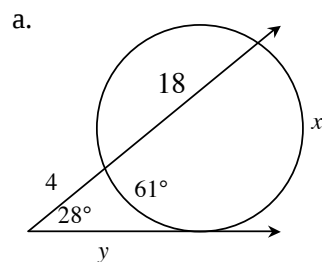


- 11-100. On your paper, draw a diagram of a square-based pyramid. If the base has side length 6 units and the height of the pyramid is 10 units, find the total surface area. Show all your work.

- 11-101. **Multiple Choice:** Which of the following cannot be the measure of an exterior angle of a regular polygon?

a. 18° b. 24° c. 28° d. 40°

- 11-102. Solve for the variables in each of the diagrams below. Assume that point C is the center of the circle in part (b).



- 11-103. Which has greater volume: a cylinder with radius 38 units and height 71 units or a rectangular prism with dimensions 34, 84, and 99 units? Show all work and support your **reasoning**.

- 11-104. Copy the diagram at right onto your paper. Use the process from problem 11-97 to find the measure of x . Show all work.

