

Name _____

12-3A Lesson Master

Questions on SPUR Objectives
See Student Edition pages 862–865 for objectives.

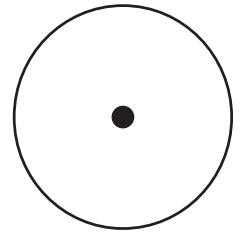
SKILLS Objective B

- A circle has equation $(x - 2)^2 + (y + 5)^2 = 9$. Give an equation or inequality for

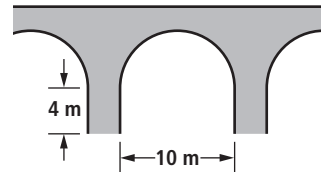
 - the interior. _____
 - the exterior. _____
 - the top semicircle. _____
 - the bottom semicircle. _____
- Write an inequality for the set of all points 8 units or more away from $(-3, 7)$. _____
 - Does the point $(-4, 0)$ satisfy the inequality? _____

USES Objective G

- A description of the center circle of a hockey rink follows:
“Exactly in the center of the rink a 12” blue spot will denote the center of the rink. Using this as a center point, a circle with a 15’ radius, and 2” wide blue lines shall be drawn.” Write a system of inequalities for the area between the blue-painted areas. Use inches for your units.



- A bridge is built with semicircular arches atop pillars. The pillars are 4 meters high and 10 meters apart. Will a boat that is 8 meters wide and 6 meters high fit under the arch? If so, how much clearance will it have?



REPRESENTATIONS Objective J

- Write an inequality for the shaded region below.
- Graph $(x + 3)^2 + (y + 4)^2 > 9$ below.

