## Name

E	L <b>2</b>	-3B Lesson Master	<b>Questions on SPUR Objectives</b> See Student Edition pages 862–865 for objectives.
S	KI	LLS Objective B	
1.	A	circle has equation $x^2 + y^2 = 10$ . Give an eq	uation or inequality for
	a.	the interior.	<b>b.</b> the exterior.
	C.	the top semicircle.	d. the bottom semicircle.
2.	A	A circle has equation $(x - 3)^2 + (y + 5)^2 = 13$ . Give an equation or inequality for	
	a.	the interior.	<b>b.</b> the exterior.
	C.	the top semicircle.	d. the bottom semicircle.
3.	a.	Write an inequality for the set of all points	5 units or less away from (5, 6).
	b.	Does the point (2, 3) satisfy the inequality	?
4.	a.	Write an inequality for the set of all points	7 units or more away from (3, 4).
	b.	Does the point (5, -4) satisfy the inequality	7?
U	SE	S Objective G	
5.	A j are	parade float 8 feet high and 5 feet wide appr ch with a diameter of 18 feet.	oached a semicircular
	a.	Will the float fit through the arch? Justify y	our answer.
	b.	Find the radius of the smallest arch throug	h which the float could pass.
6.	A s the mi	semicircular mirror is made from four smal e right. What are the least dimensions possi rror out of which each end piece is cut?	ler mirrors as shown at ible for the rectangular 4 ft

2 ft

2 ft

2 ft

2 ft

Name

