Name:	
Section:	

## MATH 120D QUIZ 6

November 14, 2002

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YOU	ı may use	a calculator	, to co	mbiete	tnis	auız.	INO	notes	piease.	Snow	an	work.

1.	A ferris wheel	with radius 40 fee	t rotates	counter-clockwise.	The lowest	point of	on the
	wheel is 8 feet	off the ground.					

(a)	(3 points) Impose a coordinate system and clearly label the coordinates of the
	center of the wheel, the lowest point on the wheel, and the highest point on the
	wheel.

(b) (4 points) At time t=0, Terry is at the highest point on the wheel. It takes Terry 9 seconds to reach the lowest point on the wheel. Give Terry's coordinates at time t seconds.

2. (3 points) If  $\sin \theta = \frac{3}{4}$ , then what are the two possible values of  $\cos \theta$ ?