College Algebra and Trigonometry, Math 123, Secton 3260, Fall 2011 Instructor: Abhijit Champanerkar

- Exam 3 will be held in class on Wednesday Dec 7th.
- Syllabus for Exam 1: 4.4, 4.5, 5.1, 5.2, 5.3
- Please report any typos to me.

1.	(a) $x = -3/4$	(b) $x = 0.71$	798	(c) $x = 2$	(d) $x = 1$.	2063	
2.	(a) $n(t) = 30 e^{0.15 t}$ (b) 55 cats			8	(c) 18.75 years		
3.	(a) $r = 0.9163$ (b) 0.7565 y).7565 years		(c) 156254 bacteria		
4.	(a) $r = 0.1386, h = 5.$	0017		(b)) 19% of initial :	mass	
5.	. 5978.3 years						
6.	43 minutes						
7.	Problem has a typo. It should read: The point $P(x, y)$ is on the unit circle in quadrant IV. If $x = \sqrt{3}/5$, find y. Answer: $y = \sqrt{22}/5$.						
8.	Point P should be in a (a) $3/5$ (d) $5/3$	quadrant II	(b) $-4/5$ (e) $5/4$		(c) - (f) -	$-3/4 \\ -4/3$	
9.	$\sin t = -\sqrt{32}/9, \tan$	$t = -\sqrt{32}/7,$	$\cot t = -7/2$	$\sqrt{32}, \sec t = 9$	$9/7, \csc t = -9$	$\sqrt{32}$	
10.	-1 sqr5						

- 11. (a)Quadrant II, $\bar{t} = \pi/6$, $\sin 5\pi/6 = \sin \pi/6 = 1/2$. (b)Quadrant II, $\bar{t} = \pi/4$, $\cos 11\pi/4 = -\cos \pi/4 = -\sqrt{2}/2$. (c) Quadrant IV, $\bar{t} = \pi/3$, $\tan(-7\pi/3) = -\tan \pi/3 = -\sqrt{3}$.
 - (d) Quadrant III, $\bar{t} = 60^{\circ}$, $\sin 240^{\circ} = -\sin 60^{\circ} = -\sqrt{3}/2$.