Name _____

Math 221, Quiz I, September 15, 2000

Circle your section:

382	Lu	8:50 TR	350 Birge
384	Ores	9:55 TR	215 Ingraham
385	Lu	11:00 TR	B337 Van Vleck
388	Raichev	12:05 TR	B129 Van Vleck
389	Raichev	1:20 TR	B317 Van Vleck
390	Givens	1:20 TR	B129 Van Vleck
391	Chakrabarti	2:25 TR	B317 Van Vleck
392	Givens	2:25 TR	B129 Van Vleck
393	Ores	3:30 TR	B317 Van Vleck
394	Chakrabarti	3:30 TR	B129 Van Vleck

$y = \cos x$
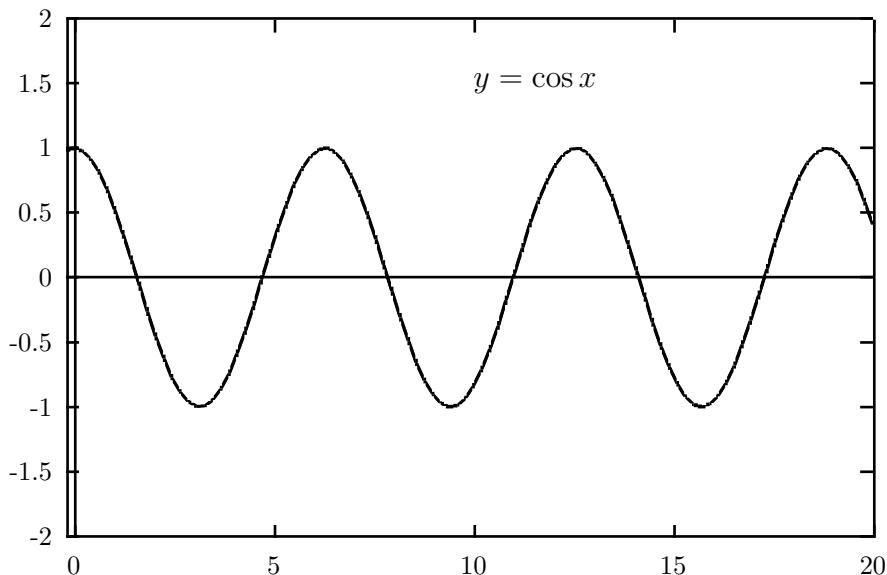
I (5 points)

$$\cos(0) = ? \qquad\qquad \cos(\pi) = ?$$

$$\cos(1000\pi) = ? \qquad\qquad \cos(1001\pi) = ?$$

$$\lim_{x \to \infty} \cos(x) = ?$$

TURN PAGE

1

II (5 points) Let $f(x) = x^2$.

a) Find the equation of the line through the points $P(3, f(3))$ and $Q(3.1, f(3.1))$.

b) Find the equation of the tangent line to the curve $y = f(x)$ at the point $P(3, f(3))$.