

Name .....

Math 221, Quiz II, September 22, 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

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**I** (10 points) If  $s = \frac{2t + 5}{t^2 - 1}$  represents the displacement of a moving particle at time  $t$ , what is the velocity  $v$  at  $t = 0$ ?

Turn page over

**II** (10 points) If  $3x \leq f(x) \leq x^3 + 2$  for all  $x$  between 0 and 2, use the Squeeze theorem to find  $\lim_{x \rightarrow 1} f(x)$ .