Math 225: Calculus III
Name:
Quiz 4 Sept. 29/Oct. 2, 1992
Section:

1. A particle's position is given by

$$
(t)=(t-\cos (t)) \subset+(1-\sin (t)) \supset+t
$$

Find the tangential component of its acceleration at any time $t$.
2. Find the points in space (if any) where the curve defined by

$$
(t)=\left(t^{2}+2 t\right) \subset+\left(t^{3}+\frac{3}{2} t^{2}\right) \supset+\left(t^{4}+4 t\right)
$$

is not smooth.

