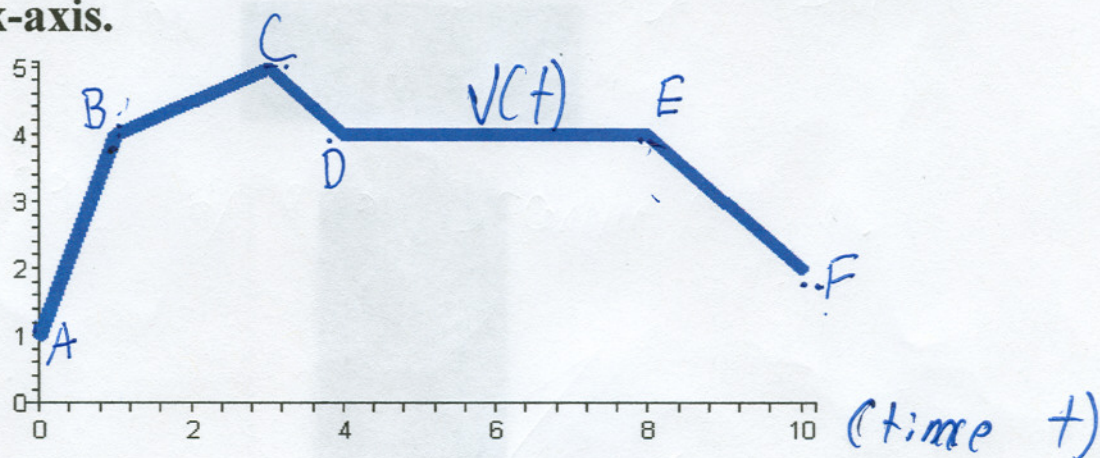Calc I Quiz 2

1) The accompanying figure shows the velocity versus time curve for a particle moving along the x-axis.

$A = (0, 1)$

$B = (1, 4)$

$C = (3, 5)$

$D = (4, 4)$

$E = (8, 4)$

$F = (10, 2)$

a) From $8 \leq t \leq 10$, express $v(t)$ in terms of time t.

b) Find the acceleration of the particle from $1 \leq t \leq 3$.

c) Where does the particle have its greatest acceleration? Why?

2) Sketch the graph $f(x) = (x+1)^{(1/3)} + 2$ by making appropriate transformations to the graph of a basic power function.