b)
$$y-y_1 = m(x-x_1)$$
 where $x = 1$ (given)
 $y-f(x_1) = f'(x_1)(x-x_1)$ $f(1) = 5-8+1$
 $y-f(1) = f'(1)(x-1)$
 $y-(-2) = f'(1)(x-1)$

$$50 | y+2= z(x-1) | is egn. 1$$

a)
$$V(t) = 4\sqrt{t}$$

a) Aug rate $= \frac{\Delta V}{\Delta t} = \frac{V(q) - V(1)}{q - 1} = \frac{12 - 4}{8} = 1$
of change of \sqrt{t}

$$V'(t) = \frac{2}{\sqrt{t}}, \quad V'(4) = \frac{2}{\sqrt{4}} = \frac{51}{mo}$$

TRUC

at t= 4

mor

4. a) True

b) False

c) Not written! Here's one: Tor F?

"A fon is cts. at x=a if

7 x sa x sat

-(That is, if limit of f exist at x=a).

We also ned that a & Dom f

(m f(x) = f(a)and that x> a