Name: Key Mathematics 122 Quiz 4

(1) If
$$P(t) = 34(1.34)^t$$
 what is $P(25)$?

$$P(25) = 51,179,84$$

(2) Let
$$f(x)$$
 be given by the table

2 V (2) Let
$$f(x)$$
 be given by the table $x \mid 0 \quad 1 \quad 3$
 $f(x) \mid 32.4 \quad 21.06 \quad 13.69$

(a) Explain why this function is exponential. (This involves both doing some calculations and writing an English sentence.)

ratio at
$$0 = \frac{8(1)}{8(0)} = \frac{21.06}{32.4} = .65$$

The vatios one constant so it is exponetice !

(b) Give a formula for f(x).

$$f(x) = 32-4 (.65)^{1/2}$$