Mathematics 122 Quiz 3 Name:

(1) If
$$P(t) = 35.6(1.34)^t$$
 then compute $P(4.6)$.

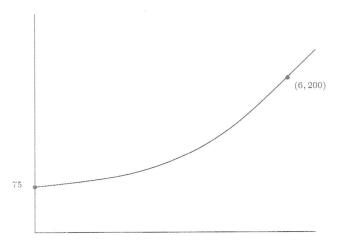
$$P(4.6) = \frac{136.81}{7}$$

$$P(4.6) = 35.6(1.34)^{1}4.6 = \frac{136.81}{7}$$

(2) If $P(t) = 6.1e^{-.3t}$, then compute P(7.2).

$$P(7.2) = 6.1e^{(-3*7.2)} = P(7.2) = .7035$$

(3) The following is a graph y = P(t) of an exponential function. Find a formula for P(t).



1 pt for L Analousuer.

$$P(t) = P_0 a^{t}$$

$$P(t) = 75 (1.776)^{t}$$

The intral value is $P_0 = 75$.

50

1 pt for $P_0 = 75$

$$P(x) = 75a^{x}$$

To find a , plug in at + = 6

so do = 200/75 10+ for sotting