Mathematics 122 Quiz #9   Name:_____

Define a function $P(t)$ by
$$P(t) = 14(.95)^t$$
Then answer the following:

1. What is the halving time for this function. (That is how long before there is only half as much as when $t = 0$?)

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2. What is the average rate of change of $P(t)$ between $t = 1$ and $t = 1.1$?

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3. What is the average rate of change of $P(t)$ between $t = 1$ and $t = 1.01$?

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4. What is the the average rate of change of $P(t)$ between $t = 1$ and $t = 1.001$?

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