1. a) 
$$R_{t}(k) = \frac{90}{100} * \frac{105}{90} - 1$$
  
 $R_{t}(k) = 20.05$   
b)  $R_{t+1} = \frac{90}{100} - 1 = 0.9 - 1 = -0.1$ 

b) 
$$R_{44} = \frac{90}{100} - 1 = 0.9 - 1 = -0.1$$
  
 $R_{4+2} = \frac{10s}{90} - 1 = .167$ 

c) The multiparied simple return is equal to the product at the single period simple returns, added to one.

d) 
$$105 = 100 * e^{(a+e)}$$
 e)  $90 = 100 * e^{(a+e)}$   $105 = 90 * e^{a}$   
 $1.05 = e^{a}$   $1.67 = e^{a}$   
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 $1.67$ 

e) The multiperiod simple return is equal to the sum of the single period continued compounding returns.