



















1

0

0

100 \* 0.9

1000\*0.9\*0.9\*0.9

1000\*0.9\*0.9

1000\*0.9\*0.9\*0.9\*0.9















Factor out 1000:

1000



















9

0.92

0.93







9

4











5









6













This infinite sum of terms  
equals:



$$\left( \frac{1}{1-0.9} \right)$$



$$\left(\frac{1}{0.1}\right)$$



=

1000

= 100 (10)

1,000

$\Delta$ Spending  $\equiv$

0

.

9

0.94

0.95

0.9%



0.97

$$100 \left( \frac{1}{1-0.9} \right) = 100 \left( \frac{1}{0.1} \right) \\ = 100 (10)$$

$$\Delta \text{Spending} = 1,000$$

