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$$\sum_{k=0}^{5} \frac{3}{2^{k}} = 3 + \frac{3}{2} + \frac{3}{2^{2}} + \frac{3}{2^{3}} + \frac{3}{2^{4}} + \frac{3}{2^{3}}$$

$$= 3 \left(\frac{1 - \frac{1}{2}^{k}}{1 - \frac{1}{2}^{k}} \right) = 3 \left(\frac{1 - \frac{1}{64}}{1 - \frac{1}{64}} \right)$$

$$= 3 \left(\frac{1 - \frac{1}{2}^{k}}{1 - \frac{1}{2}^{k}} \right) = 3 \left(\frac{3}{3^{2}} \right) = \frac{3}{3^{2}}$$

$$= 6 \left(\frac{63}{64} \right) = 3 \left(\frac{3}{3^{2}} \right) = \frac{16}{3^{2}}$$

$$\frac{\left(\frac{1}{3}\right)^{n}}{a_{1}} = \frac{1}{3} \cdot \frac{1}{9} \cdot \frac{1}{27} \cdot \frac{1}{81} \cdot \frac{1}{243} \cdot \cdots$$

$$a_{n} = a_{1} + a(n-1)$$

$$a_{n-1} = a_{1}$$

Present Value. Future Value Sony you invest 1000 at FV= PV (1+1)10 FV = 1000 (1.04) someone sups they will give your \$1000 in 10 years.
How much is that worth today? descent $= (1+1)^n$ Actor = 0.02concerns: infrast /inflation = risk or uncert uncertainty in general r is chosen by the