VD 8.3.2

Find sum of the following series if possible (round to the thousandth place when a definite sum is found)

1. $\sum_{k=6}^{15} 3\left(\frac{4}{9}\right)^k$	.042
2. $\sum_{k=0}^{\infty} 2\left(\frac{1}{3}\right)^k$	3
3. $\sum_{k=0}^{\infty} (-3)\left(\frac{2}{3}\right)^k$	-9
4. $\sum_{k=0}^{\infty} 4\left(\frac{5}{4}\right)^k$	No definite sum
5. $\sum_{k=2}^{20} \left(\frac{4}{3}\right)^k$	1256.014
6. $\sum_{k=0}^{30} \left(\frac{2}{5}\right)^K$	0.107
7. $\sum_{k=4}^{15} \left(-\frac{3}{2}\right)^k$	264.761