

## Chapter 3 Formulas

SGS

$$a + ar + ar^2 + \dots + ar^{n-1}$$

$$= \begin{cases} \frac{a(1-r^n)}{(1-r)} & \text{if } r \neq 1 \\ na & \text{if } r = 1 \end{cases}$$

$$a_{\overline{n}|i} = \frac{1-v^n}{i}$$

$$s_{\overline{n}|i} = \frac{(1+i)^n - 1}{i}$$

$$\ddot{a}_{\overline{n}|i} = \frac{1-v^n}{d}$$

$$\ddot{s}_{\overline{n}|i} = \frac{(1+i)^n - 1}{d}$$