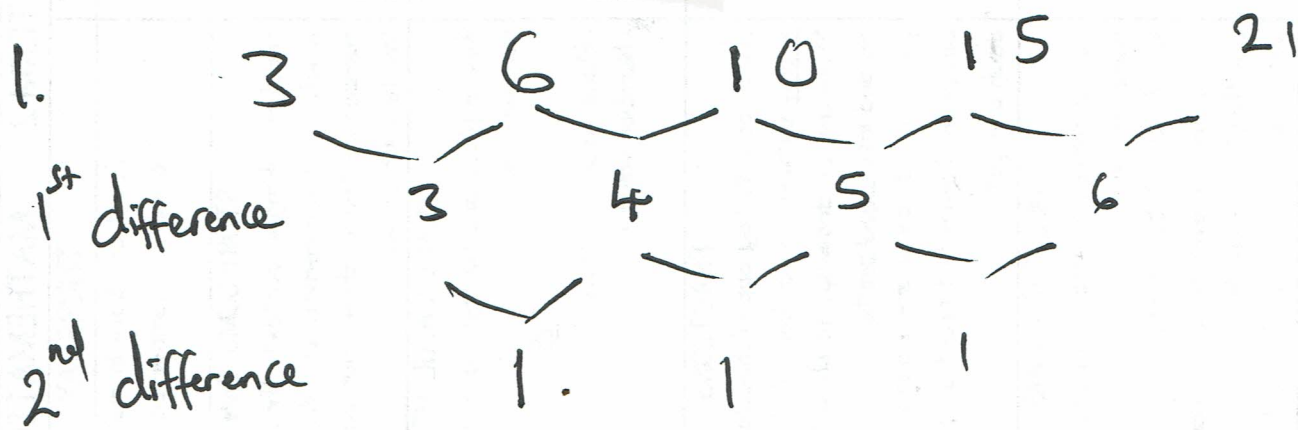


MEMO



$$T_n = an^2 + bn + c$$

$$a = \frac{1}{2}$$

$$3a + b = 3$$

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

$$b = 1\frac{1}{2} \quad / \quad \frac{3}{2}$$

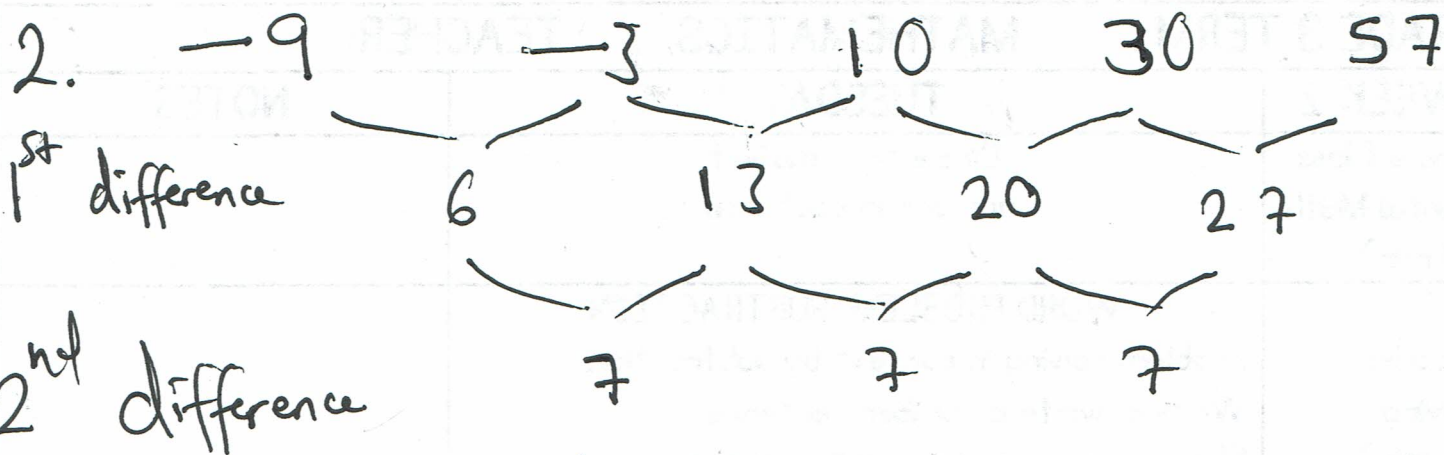
$$3 = a + b + c$$

$$3 = \frac{1}{2} + 1\frac{1}{2} + c$$

$$3 - 2 = c$$

$$1 = c$$

$$\therefore \underline{\underline{T_n = \frac{1}{2}n^2 + \frac{3}{2}n + 1}}$$



$$a = \frac{7}{2} / 3\frac{1}{2}$$

$$6 = 3a + b$$

$$6 = 3\left(\frac{7}{2}\right) + b$$

$$6 - 10\frac{1}{2} = b$$

$$\underline{-4\frac{1}{2} = b}$$

$$\text{or } \underline{-\frac{9}{2} = b}$$

$$-9 = a + b + c$$

$$-9 = 3\frac{1}{2} + -4\frac{1}{2} + c$$

$$-9 + 1 = c$$

$$\underline{-8 = c}$$

$$\therefore T_n = \frac{7}{2}n^2 - \frac{9}{2}n - 8$$