3. Find the nth term for the sequence:

a) -5, -7, -9, -11, ... b) -8 0 8 ... c)
$$\frac{1}{5}$$
 $\frac{1}{4}$.

 $\alpha_{n} = \alpha_{1} + (n-1) \cdot (-2)$
 $\frac{2}{4} = -5 + (-2n) \cdot (-2)$
 $\frac{2}{5}$ $\frac{4}{20}$ $\frac{4}{20}$

$$d = \frac{1}{4} - \frac{1}{5} = \frac{1}{20}$$

$$a_{n} = a_{1} + (n-1)d$$
 $a_{n} = -8 + (n-1)8$
 $a_{n} = -8 + (n-1)8$
 $a_{n} = -8 + 8n - 8$
 $a_{n} = -16 + 8n$
 $a_{n} = -16 + 8n$

- a) Determine a formula to generate the terms of the sequence.
 - b) Calculate the first 5 terms of the sequence

$$\frac{\alpha_{1} = \alpha_{1} + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

$$\frac{\alpha_{1} = 25 + (n-1)d}{\alpha_{1} = 25 + (n-1)d}$$

5. A sequence is defined by the formula $a_n = 8n + 2$

Calculate the first 5 ters of the sequence

- b) What is the difference between the terms of the sequence?
- c) Wrute down the next 3 terms of the sequence
- d) Find the 52th term of this sequence.

$$0 = 80 + 2 = 10$$
 $0 = 8 \times 2 + 2 = 16$
 $0 = 26$
 $0 = 37$
 $0 = 37$
 $0 = 92$

$$\sqrt{a_n = 8n + 2}$$

$$\alpha_{1} = 8.4 + 2$$