

Question

#2 determine the first five terms of the sequence

$$a_n = 5n - 3$$

Answer



$$a_1 = 5 \cdot 1 - 3 = 2$$

$$a_2 = 5 \cdot 2 - 3 = 7$$

$$a_3 = 5 \cdot 3 - 3 = 12$$

$$a_4 = 5 \cdot 4 - 3 = 17$$

$$a_5 = 5 \cdot 5 - 3 = 22$$

Question

#6 determine the first five terms of the sequence

$$a_n = \left(\frac{-1}{2}\right)^n$$

Answer

$$a_1 = \left(\frac{-1}{2}\right)^1 = \frac{-1}{2} \quad a_2 = \left(\frac{-1}{2}\right)^2 = \frac{1}{4} \quad a_3 = \left(\frac{-1}{2}\right)^3 = \frac{-1}{8} \quad a_4 = \left(\frac{-1}{2}\right)^4 = \frac{1}{16} \quad a_5 = \left(\frac{-1}{2}\right)^5 = \frac{-1}{32}$$

Question

#7 determine the first five terms of the sequence

$$a_n = \frac{n+2}{n}$$

Answer

$$a_1 = \frac{1+2}{1} = 3 \quad a_2 = \frac{2+2}{2} = 2 \quad a_3 = \frac{3+2}{3} = \frac{5}{3} \quad a_4 = \frac{4+2}{4} = \frac{3}{2} \quad a_5 = \frac{5+2}{5} = \frac{7}{5}$$

Question

#14 determine the first five terms of the sequence

$$a_n = \frac{2^n}{3^n}$$

Answer

$$a_1 = \frac{2^1}{3^1} = \frac{2}{3} \quad a_2 = \frac{2^2}{3^2} = \frac{4}{9} \quad a_3 = \frac{2^3}{3^3} = \frac{8}{27} \quad a_4 = \frac{2^4}{3^4} = \frac{16}{81} \quad a_5 = \frac{2^5}{3^5} = \frac{32}{243}$$