

# NCERT Discrete 11.9.1 Q7

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**Question:** Find the indicated terms in the sequence whose  $n$ th term is  $x_n = 4n - 3$ . Find  $x_{17}$  and  $x_{24}$ .

**Solution:** In the question, following information is provided:

Symbol	Value	Description
$x_n$	$4n - 3$	The $n$ th term of the sequence
$x_{17}$	?	17th term
$x_{24}$	?	24th term

TABLE I  
PARAMETERS

We know that  $x_n = 4n - 3$ . So, after substituting the values in the formula. As,  $x(1)$  is the first term, we get :

$$x_{17} = 4 \times 16 - 3 = 61 \quad (1)$$

$$x_{24} = 4 \times 23 - 3 = 89 \quad (2)$$

The plot between  $x(n)$  and  $n$  is :

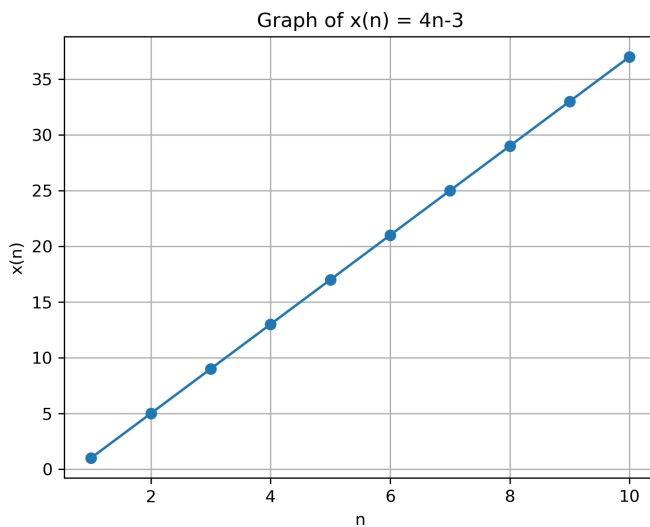


Fig. 1.  $x(n)$  vs  $n$