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NCERT Discrete

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Question 10.5.2.8:

An AP consists of 50 terms of which 3^{rd} term is 12 and the last term is 106. Find the 29^{th} term.

Solution:

Parameter	Value	description
x(0)	6	First term
d	2	common difference
x(n)	[x(0) + 2n]u(n)	general term
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INPUT PARAMETERS

In this AP we can tell that x(0)=6. Therefore, x(n)=6+2n.

$$X(z) = \frac{6 - 8z^{-1}}{(1 - z^{-1})^2} \quad z > 1$$

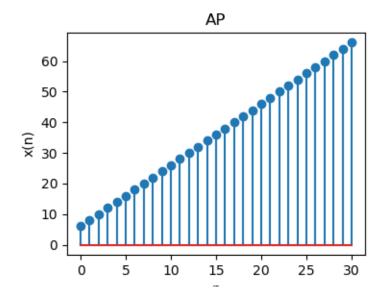


Fig. 1. graph of the given AP