Assignment 1

adarsh

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Problem

If (k-3), (2k+1), (4k+3) are three consecutive terms of A.P., find the valuee of k



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Solution

let a = k-3, b = 2k+1, c = 4k+3 are three consecutive terms of A.P. common difference between consecutive terms of A.P. is same

$$(b-a)=(c-b) \tag{1}$$

$$(2k+1)-(k-3)=(4k+3)-(2k+1)$$
 (2)

$$2k+1-k+3=4k+3-2k-1 \tag{3}$$

$$k+4=2k+2\tag{4}$$

$$-k = -2 \tag{5}$$

$$k=2 \tag{6}$$



Answer

k is equal to 2

