# High School Assignment

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#### 1. Problem

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

## 2. 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)

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

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

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

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

## 3. Answer

k is equal to 2