

Substitute $y = -5x$ in above equation:

$$x - 12 - 3(-5x) = \frac{4}{x} \Leftrightarrow 16x^2 - 12x - 4 = 0 \Leftrightarrow (x - 1)(16x + 4) = 0$$

Roots are $x = -\frac{1}{4}$ or 1 , thus $y = \frac{5}{4}$ or -5 respectively.

- 4.
- Given that the constant term in the binomial expansion of $(x - \frac{k}{x^3})^8$ is 7, find the value of positive constant k .
[4]
 - Using the value of k found in part (i), show that there is no constant term in the expansion of $(1 + x^4)(x - \frac{k}{x^3})^8$
[4]

Solution:

(i)

$$(x - \frac{k}{x^3})^8 = \sum_{i=0}^8 \binom{8}{i} x^i \left(\frac{-k}{x^3}\right)^{8-i}$$

Simplify a general term: $\binom{8}{i} x^i \left(\frac{-k}{x^3}\right)^{8-i} = \binom{8}{i} (-k)^{8-i} x^{i-3(8-i)} = \binom{8}{i} (-k)^{8-i} x^{4i-24}$

For the constant term: $4i - 24 = 0 \Leftrightarrow i = 6$

$$\binom{8}{6} (-k)^{8-6} = 7 \text{ (because value of constant term is 7)}$$

$$\Leftrightarrow k^2 = \frac{1}{4} \Leftrightarrow k = \frac{1}{2} \text{ (since } k \text{ is positive).}$$

(ii)

$$\begin{aligned} (1 + x^4) \left(x - \frac{k}{x^3}\right)^8 &= (1 + x^4) \left(\sum_{i=0}^8 \binom{8}{i} x^i \left(\frac{-k}{x^3}\right)^{8-i} \right) \\ &= \underbrace{\sum_{i=0}^8 \binom{8}{i} x^i \left(\frac{-k}{x^3}\right)^{8-i}}_A + \sum_{i=0}^8 \binom{8}{i} x^{i+4} \left(\frac{-k}{x^3}\right)^{8-i} \end{aligned}$$

As given in (i): A has a constant term of value 7.

Simplify a general term of B

$$\binom{8}{i} x^{i+4} \left(\frac{-k}{x^3}\right)^{8-i} = \binom{8}{i} (-k)^{8-i} x^{i+4-3(8-i)} = \binom{8}{i} (-k)^{8-i} x^{4i-20}$$

A constant term of B should have value of i which satisfies: $4i - 20 = 0 \Leftrightarrow i = 5$

Thus, the value of constant term of B is $\binom{8}{5} (-k)^{8-5} = -7$

In summary, $A + B$ would have constant term of value: $7 + (-7) = 0$, that means $A + B$ has no constant term.

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