

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)

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

$\uparrow$   $A$ 
 $\uparrow$   $B$

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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