

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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workplace stress the american institute of stress - Oct 29 2022

web the free ais workplace stress scale wss was developed in 1978 and modified in 2022 to serve as a preliminary screening measure to determine the need for further investigation with more comprehensive assessments such as the scientifically validated and ais certified

the relationship between job stress and patient safety culture - Nov 29 2022

web feb 13 2023 job stress nurses work stress is one of the leading causes of physical and mental problems among nurses and can affect patient safety nurses experiencing stress are more prone to make errors which has consequences for the safety culture

culture of safety in the workplace definition and traits - Jun 05 2023

web jun 24 2022 what is a culture of safety in the workplace a culture of safety in the workplace refers to positive attitudes toward keeping employees safe while they do their jobs safety culture is often important in work environments with a more

frequent chance of hazards like construction or manufacturing