



Topics to be covered



1 Basic Calculation

2 Genral guidance.

3

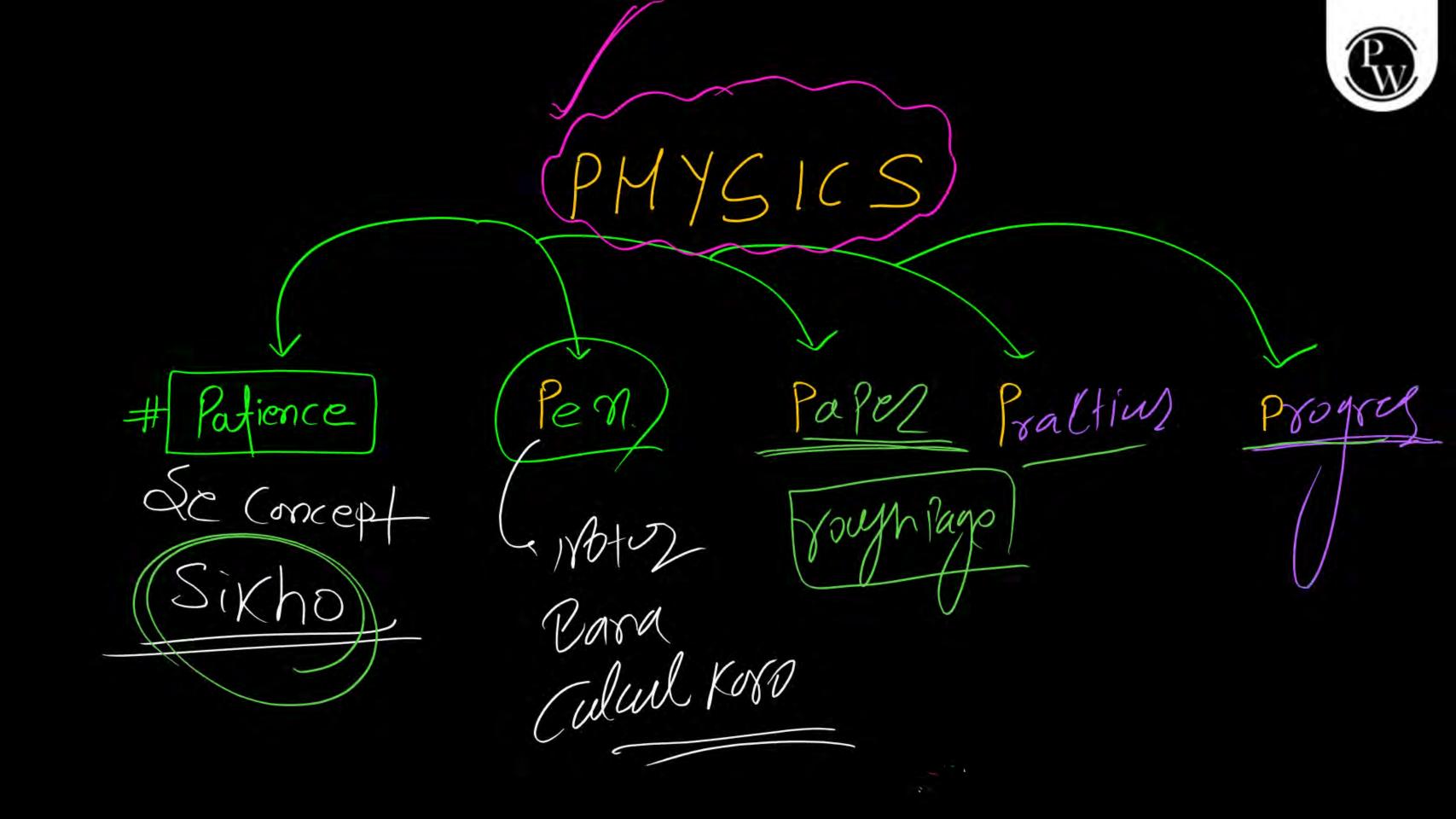
4

Math is a language

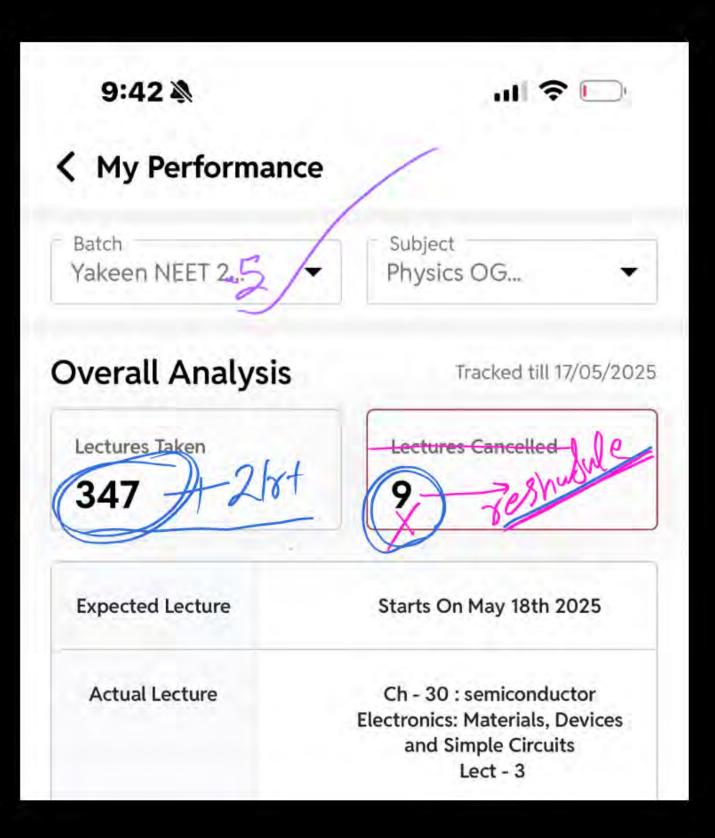
Basic math

2 times cover

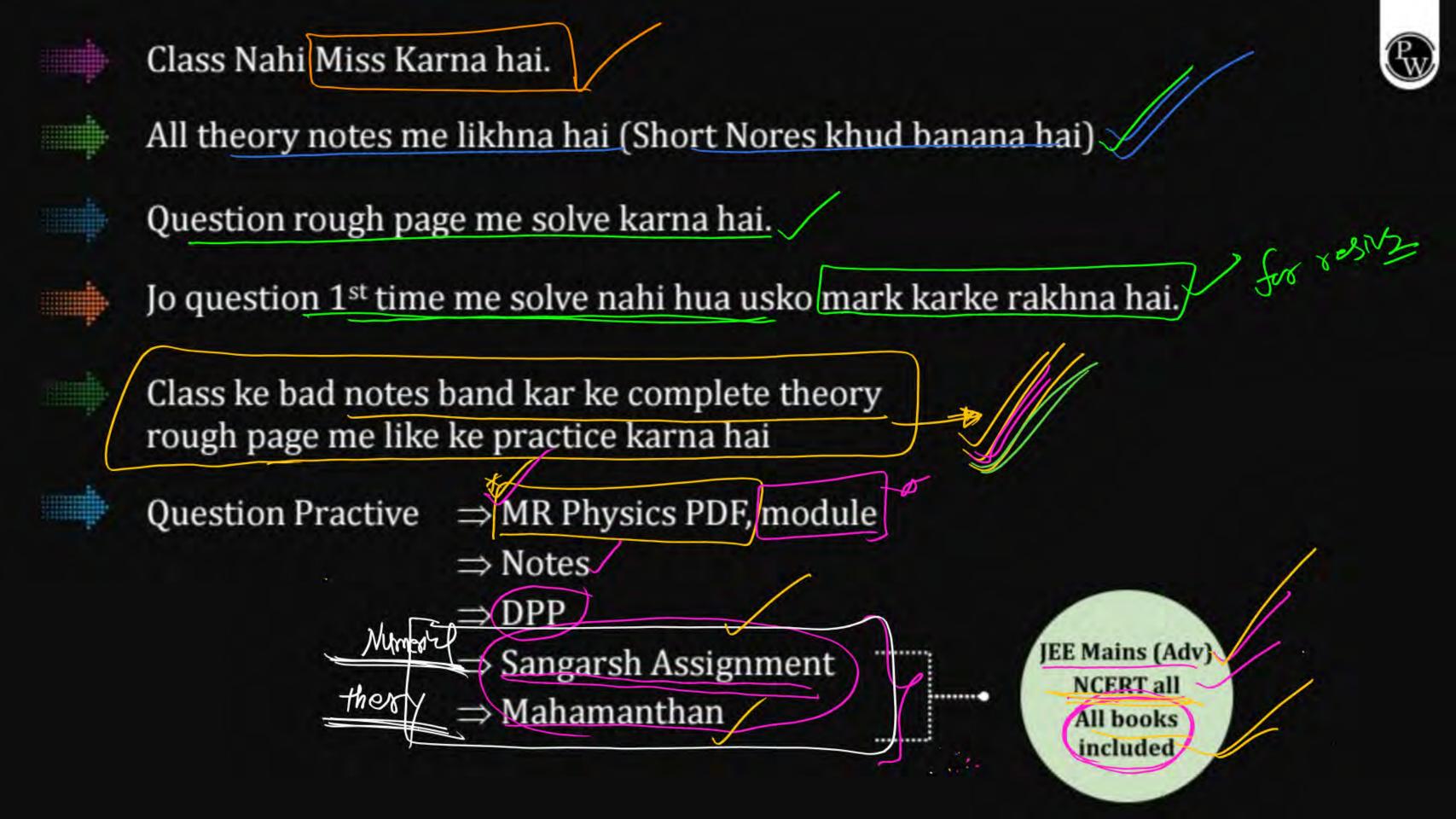
concept wedy



a sirt physics 2 Langaret + Mahamanthan -10000 Question -6000+ + cluss me. Concept Ko feel Se Padhna hai, Physics se khelma has Ghall Par Bhot Sare question Karna charte ho; X lecture Se Pare san Nahi hoge. 双 ho/ & advance Tax Jana hal. - re Se Start Kanne Ke life ready











- (1) Ye to easy hai, class nahi karna PDF se ho jayega
- (2) Bina proper question read kiye answer dena
- (3) Half calculation ke bad sochna, ho to gya isse ye aa jayega (Bio me direct answer dikh jata hai)
- (4) H/W / question practice nahi kar rha, (sirf teacher ke question solve karne se nahi hoga)
- (5) Direct tough question karna hai, pahle basic ka master hona hoga.
- (6) Backlog hai to test nahi diya
- (7) Life me dosti, pyar bhi jaruri hai.
- (8)MM Fresh hone ke liye 20-25 minute to insta/youtube jaruri hai



Success Margdarshan



30-45 minute every week throughout the year



Daily Challenger

2-3 question in every class solution in next class or next to next Critical thinking develope ho jaygi



Maha-Manthan

NCERT deep line / HCV objective Theory me problem nahi aayga



Sangarsh-Assignment



JEE Mains (80-90%) advance, level up question doubts of topper. Solution mai dunga to koi problem nahi 200-30



MR Physics PDF

Chapter wise extra question nahi likhna hai



fest Discussion

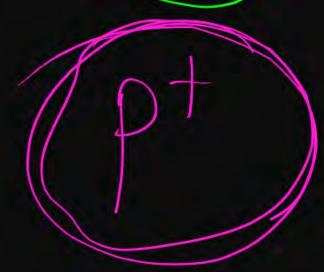
Selective level up question will discuss in class.





Complete Concept

Language/ Practice



NEET PHYSICS

CALCULATION





taste has



What is the value of 50 by half?

- 50
- 25 X 36%
- 3 /100 70%
- 4 200

$$\frac{50}{2}$$



Maha-Basic



Find x

$$\frac{4}{(1/x)} = 3$$

$$\frac{4}{2}$$
 = 3

$$\frac{y}{(1/3)} = 4$$

$$\int_{0}^{3} \frac{y}{(x^{3})} = 4$$

$$\int_{0}^{3} \frac{y}{(x^{3})} = 4$$

$$\int_{0}^{3} \frac{y}{(x^{3})} = 4$$

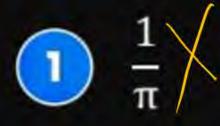


N² ≈ 10

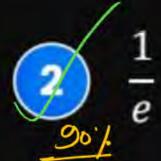
C= 2.71



Which is greater (a) $\frac{1}{\pi}$ or (b) $\frac{1}{e}$



$$\frac{1}{x} = \frac{1}{3.19} = \frac{1}{3.19} \times \frac{10}{10}$$



Can't say

$$\frac{\sqrt{1}}{\sqrt{2}} > \frac{1}{2}$$

$$\frac{1}{10} = 0.1$$

$$\frac{1}{100} = 0.01$$

$$\frac{1}{1000} = 0.001$$



What is the value of $\sqrt{50} + \sqrt{50}$?

- $1 \quad 4\sqrt{50}$
- $2 \sqrt{100}$
- 3 √200 (30%)
- **4** 50



$$\int 50 + \int 50 = \int 50 \left(1 + 1 \right)$$

$$\sqrt{y-2}$$

$$\int 50 \times \int 50 = 50$$



(a) If n is a non-zero numbers then $n^2 < n$ is possible?

$$\eta^2 = (0.1)^2$$
= 0.1 \times 0.1 = 0.01

$$\frac{1}{500}$$

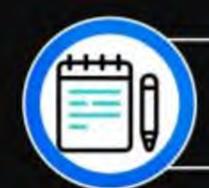
$$\frac{2^{2} = 4}{2^{3} = 8}$$

$$\frac{2^{3} = 8}{2^{4} = 16}$$

$$\frac{2^{5} = 32}{2^{5} = 32}$$

$$\frac{2^{6} = 64}{2^{7} = 128}$$

$$3^{2} = 5$$
 $3^{3} = 27$
 $3^{4} = 81$
 $3^{5} = 243$
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Rule of Power [Exponent]



1. 9f Power of any non-zero number is zero then it will be equal to 1

2. In Product if Base is same then Power will add.

$$\mathcal{K} = \mathcal{K} \cdot \mathcal{K}$$

$$\frac{10^{2} \times 10^{6}}{10^{2} \times 10^{6}} = \frac{10^{12}}{10^{8}}$$

$$10^{4} \times 10^{3} = 10^{7}$$



Find value of $10^2 + 10^3$?

- 10550%
- 2 10⁶ X
- $\boxed{3} \boxed{1.1 \times 10^3}$
- 4 1010

$$10^2 + 10^3 = 10^5$$

$$10^{2} + 10^{3} = 100 + 1000$$

$$= 1100$$

$$= 1100 \times (1000)$$

$$= (10 \text{ p})$$

$$= (11 \times 10)$$

3. Division property of exponent (& wer)

if Pase is same in division then Power will subtract.

$$\frac{10^{3}}{10^{2}} = 10^{3-2} = 10$$

4. Negative property of power

$$\mathcal{X} = \frac{1}{2}$$

$$10^{3} = \frac{1}{10^{3}}$$

$$10^{3} = \frac{1}{10^{3}}$$

$$10^{5} = \frac{1}{10^{5}}$$

$$\frac{10^{-19}}{10^{31}} = \frac{10^{-19} \times 10^{31}}{10^{31}} = \frac{10}{10}$$

5. Power of power

$$\left(\chi\right)_{\mathbf{m}} = \chi_{\mathbf{n} \times \mathbf{m}}$$

$$(2^3)^4 = 2^{12}$$

$$4^{\frac{1}{2}} = \sqrt{4} = 2$$
 $(2^{\frac{1}{2}})^{\frac{1}{2}} = 2$

6. Fractional Power

$$(x)^{3} = (x^{3})^{x^{\frac{1}{2}}} = (x^{2})^{3}$$

$$(4)^{3/2} = (4^{\frac{1}{2}})^{\times 3}$$

$$= (2)^{3} = 8$$

$$(8)^{2/3} = (2^{\frac{3}{2}})^{\frac{3}{2}} = 2^{2} = 4$$

$$>$$
 (8)^{2/3} =

- MW
 - \triangleright (125)^{2/3} =



$$(4)^{4/3} =$$

$$\triangleright$$
 (25)^{3/2} =

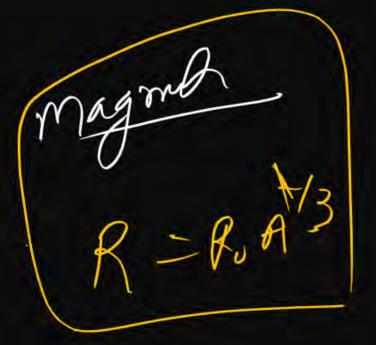
$$(64)^{2/5} =$$

$$\triangleright$$
 (216)^{2/3} =

$$(4)^{-3/2} =$$

$$>$$
 (32)^{2/5} =

$$\triangleright$$
 (64)^{2/3} =



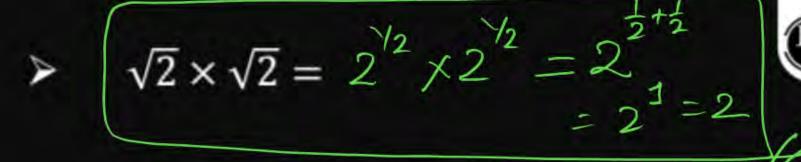
$$\sqrt{2} = 1.4$$

$$\sqrt{3} = 1.73$$

$$\sqrt{5} = 2.23$$

$$\sqrt{6} = 2.44$$

$$\Rightarrow \pi^2 = 1_{\text{O}}$$



$$\sum \frac{2}{\sqrt{2}} = \frac{\sqrt{2} \times \sqrt{2}}{\sqrt{2}} = \frac{\sqrt{2}}{\sqrt{2}}$$



Solve the expression

(i)
$$\frac{9^2-9}{9}$$

(v)
$$\frac{9^{3/2}-6}{7}$$

(ii)
$$\frac{13^2 - 12^2}{13 + 12}$$

(vi)
$$(2^{\circ} - 3)^2 - 1$$

(iii)
$$\frac{21^2 - 21}{21}$$

$$(vii)\frac{12}{\sqrt{2}}$$

(iv)
$$\frac{\sqrt{2} + \sqrt{2}}{\sqrt{2}}$$

$$(viii)\frac{x^2}{81} = \frac{9}{x}$$





Find value of

(i)
$$10^2 - (-10^3) =$$

(iii)
$$27 + 7^0 =$$

(v)
$$3-1^2 =$$

(vii)
$$(4)^{5/2} =$$

(ix)
$$t^2t^3 =$$

(x)
$$(27)^{1/3} =$$

(ii)
$$9^0 + 9 =$$

(iv)
$$4^3 - 4^2 =$$

(vi)
$$(8)^{2/3} =$$

(viii)
$$(27)^{2/3} =$$

$$(x) \qquad \frac{1}{x^2 \sqrt{x}} = \underline{\hspace{1cm}}$$

(xi)
$$(9)^{5/2} =$$



Compare (a) 0.4

(c)
$$0.400 = \frac{400}{1000} = \frac{4}{10}$$

which is greate ??



Maha-Basic



$$\frac{1}{10} =$$

$$\frac{1}{100} =$$

$$\frac{1}{1000} =$$

$$\frac{1}{10^4}$$
 -

$$\frac{1}{10^{-5}} =$$



Effect on Power due to Shifting of Decimal Place



$$2.43 \times 10^{2} = 24.3 \times 10^{1}$$

$$\frac{(2.43)\times10^{2}\times10}{19} = 24.3\times10^{1}$$

$$-7.839\times10^{4}=7$$





Find the value of *y* in given expression:

$$4.38 \times 10^2 = y \times 10^4$$

$$23.4 \times 10^{-2} = y \times 10^{2}$$

$$501.3 = 50.13 \times 10^{y}$$

$$48.6 = 4860 \times 10^{y}$$

$$0.38 = 0.0038 \times 10^{y}$$

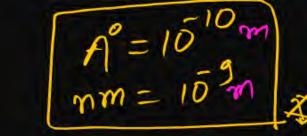
$$0.038 = 3800 \times 10^{y}$$

$$0.03800 = \frac{102}{3800} = \frac{3800 \times 102}{2}$$

$$\frac{\sqrt{4.38 \times 10^2 \times 10^2}}{10^2} = \frac{0.0438 \times 10^4}{10^2}$$

$$4.38 \times 10^2 = 0.0438 \times 10^4$$

$$50|.3 = (50|.3) \times 10 = 50.13 \times 10$$





$$4 \mu m = ____ Å$$

$$3\sqrt{8} = ?$$

$$\sqrt{3.6 \times 10^{-5}} =$$

$$0.4 \text{ C} = \frac{400 \text{ C}}{10^{-4} \text{ C}}$$

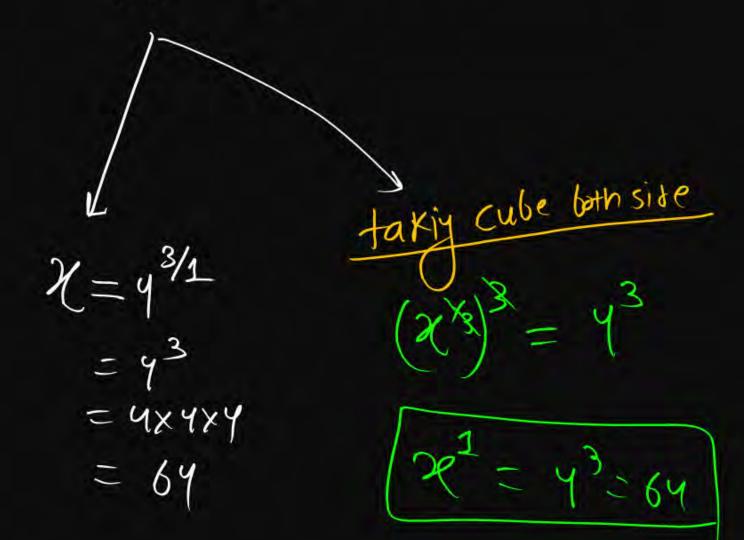
$$\frac{12400 \times 10^{10} \times 10}{10} = 1240 \times 10^{3}$$

$$= 1240 \times 10^{3}$$



Changing the side of Power:

(i) Find x in given expression: $(x)^{1/3} = 4$



$$\frac{2}{2} = \frac{1}{2}$$

$$\frac{2}{2} = \frac{1}{2}$$

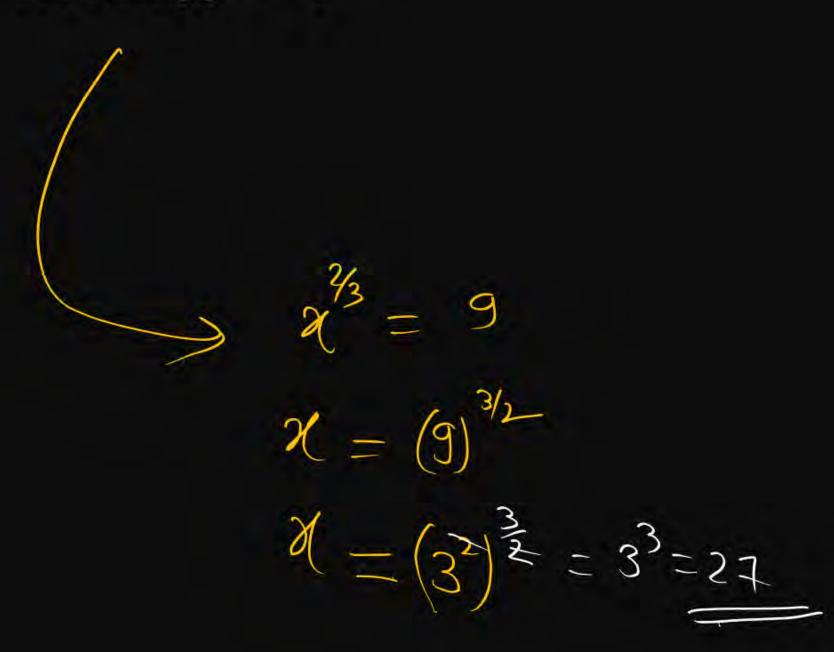
$$\frac{2}{2} = \frac{2}{2}$$

$$\frac{2}{2} = \frac{2}{2}$$

$$\frac{2}{2} = \frac{2}{2}$$



Find x if
$$(x)^{2/3} = 9$$





Maha-Basic



Find *x* in given expansion:

$$(x)^{\frac{3}{4}}=27$$

$$(x)^{\frac{3}{2}}=8$$



If base is same both side then power will be same.



1. If $3^{6-x} = 27$, find value of *x*.

$$3^{6-x} = 3$$

$$6-x = 3$$

$$6-3 = x = 3$$

2. If $2^{y-4} = 64$, find value of y.

$$3^{2} = 9$$
 $3^{3} = 27$





Find value of x:

(i)
$$4^{x/2} = 8$$

(ii)
$$10^{x/4} = 10^5$$

(iii)
$$\frac{10^7}{10^{x/2}} = 10^6$$

(iv)
$$x^{-2/5} = \frac{1}{9}$$

$$\frac{2^{2} \times \frac{\pi}{2}}{2^{2}} = 2^{3}$$



If
$$(x-4)^{2/3} = 4$$
. Find x.

$$\left(\frac{2}{3} - \frac{4}{3} \right)$$

WEET PYD

magnetic field on axis of ping

Find value of x for given expression?

$$27 = (5 + x^2)^{3/2}$$

$$27 = (5+x^2)^{3/2}$$

$$(5+\chi^2) = (27)^{2/3}$$

$$(5+\chi^2) = (3^3)^{\frac{2}{3}} = 3^2$$

 $5+\chi^2 = 9$

$$32 = 3-5$$

$$n^2 = 4$$

$$n = 5$$





If
$$\left(\frac{a}{b}\right)^{x-1} = \left(\frac{b}{a}\right)^{x-3}$$
. Find x.



Find value of 0.36×175 ?

$$\Rightarrow$$
 0.28 × 200 = ?

$$0.36 \times 175 = ??$$

$$\frac{36}{14} \times 175 = 63$$



Convert decimal to fraction:

$$0.2 = \frac{2}{10}$$

$$0.4 = \frac{4}{10}$$

$$0.5 = \frac{5}{10}$$

$$0.75 = \frac{75}{100}$$

$$0.33 = 33$$
 $0.66 = 66$

- 0.25
- 1.33
- 1.50
- 2.51
- .33

Multiply this

$$12 \times 0.67 =$$

$$16 \times 0.75 =$$

$$0.66 \times 18 =$$

$$0.33 \times 21 =$$

$$25 \times 0.6 = 25 \times \frac{6}{10} = \frac{134}{10} = 15$$

$$1.33 \times 25 =$$



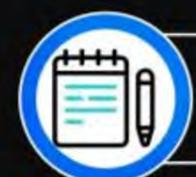
J0-45

$$(0.4)^2 =$$

$$\sqrt{0.49} =$$

$$\sqrt{0.64} =$$

$$(0.02)^2 = \left(\frac{2}{100}\right)^2 = \frac{4}{100} = \frac{4}{100} = \frac{4}{100}$$



Concept of L.C.M.



$$\frac{1}{a} + \frac{1}{b} = \left(\frac{b+a}{ab}\right)$$

$$\frac{1}{4} + \frac{1}{3} =$$

$$\frac{4}{1} + \frac{1}{8} =$$



Componendo and Dividendo



Question (Level UP)



If rod of length *l*, is bended to form a coil of n-turns then find radius of coil.



PHD on Basic Math



Question (Level UP)



Find value of $16^{-1/4} + 4^{-2}$?





Find value of
$$n$$
; if $\frac{2}{n} = 4 + \frac{6}{7}$.



If $E = \frac{2KP}{r^3}$; distance becomes double then, find ratio of final to initial electric field.



If
$$y = \frac{2x^2}{z}$$
 if x becomes double and z becomes half then y will be



If $S = \frac{V_0^2}{2a}$; if speed becomes half and retardation becomes double then, find ratio of stopping distance.



Find value of n in given expression

$$\frac{2}{n} = 4 + \frac{6}{7}$$





Solve the expression

$$(ix) 2^x = \frac{1}{8}$$

(x)
$$\frac{0.4}{0.01}$$

(xi)
$$(4^{\circ} + 4^{-1}) \times 2$$

(xii)
$$\sqrt{1 - 0.19}$$





Addition Subtraction with Fraction

(i)
$$0.74 - 0.08 = ??$$

(iii)
$$0.94 + 0.027$$

(v)
$$\frac{0.8}{0.6}$$

(vi)
$$0.4 \times 0.02$$



What is infinity?





Trigonometry