

USE THIS PROMOCODE

PASSQAE55A5D

GET 25% OFF
ON ALL THESE PRODUCTS

ALL IN ONE SPEED TEST

1 YEAR

ALL IN ONE SPEED TEST

2 YEAR

VIDEO GURU ALL IN ONE

BANK

VIDEO GURU ALL IN ONE

SSC

VIDEO GURU ALL IN ONE

RAILWAY

$$(a+b)^2 = a^2 + 2ab + b^2$$

$$(a - b)^2 = a^2 - 2ab + b^2$$

$$a^2 + b^2 = (a - b)^2 + 2ab$$

$$a^2 - b^2 = (a - b)(a + b)$$

$$(a + b + c)^2 = a^2 + b^2 + c^2 + 2ab + 2ac + 2bc$$

$$(a - b - c)^2 = a^2 + b^2 + c^2 - 2ab + 2bc - 2ac$$

 **Mahendra's**

ENSURE YOUR SUCCESS WITH- VIDEO GURU



A COMPLETE VIDEO CLASS
FOR YOUR PREPARATION

Subscribe
BUTTON 

BOOST YOUR PREPARATIONS WITH MAHENDRAS: **STUDY MATERIAL, E-MICA, E-NEWS, BAGS & MUCH MORE.** VISIT NOW: myshop.mahendras.com

$$(a + b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$$

$$(a + b)^3 = a^3 + b^3 + 3ab(a + b)$$

$$(a - b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$$

$$a^3 - b^3 = (a - b)(a^2 + ab + b^2)$$

$$a^3 + b^3 = (a + b)(a^2 - ab + b^2)$$

 **Mahendra's**

ENSURE YOUR SUCCESS WITH- VIDEO GURU



A COMPLETE VIDEO CLASS
FOR YOUR PREPARATION

Subscribe
BUTTON



BOOST YOUR PREPARATIONS WITH MAHENDRAS: **STUDY MATERIAL, E-MICA, E-NEWS, BAGS & MUCH MORE.** VISIT NOW: myshop.mahendras.c

$$(a + b)^4 = a^4 + 4a^3b + 6a^2b^2 + 4ab^3 + b^4)$$

$$(a - b)^4 = a^4 - 4a^3b + 6a^2b^2 - 4ab^3 + b^4)$$

$$a^4 - b^4 = (a - b)(a + b)(a^2 + b^2)$$

 **Mahendra's**

ENSURE YOUR SUCCESS WITH- VIDEO GURU



A COMPLETE VIDEO CLASS
FOR YOUR PREPARATION

Subscribe
BUTTON



BOOST YOUR PREPARATIONS WITH MAHENDRAS: **STUDY MATERIAL, E-MICA, E-NEWS, BAGS & MUCH MORE.** VISIT NOW: myshop.mahendras.c

$$a^3 + b^3 + c^3 - 3abc = (a+b+c)(a^2+b^2+c^2-ab-bc-ca)$$

$$\text{If } a + b + c = 0 \text{ then } a^3 + b^3 + c^3 = 3abc$$

 **Mahendra's**

ENSURE YOUR SUCCESS WITH- VIDEO GURU



A COMPLETE VIDEO CLASS
FOR YOUR PREPARATION

Subscribe
BUTTON



BOOST YOUR PREPARATIONS WITH MAHENDRAS: **STUDY MATERIAL, E-MICA, E-NEWS, BAGS & MUCH MORE.** VISIT NOW: myshop.mahendras.com

$$a^2 + b^2 + c^2 - ab - bc - ca = 1/2 [(a-b)^2 + (b-c)^2 + (c-a)^2]$$

$$a^3 + b^3 + c^3 - 3abc = 1/2 (a+b+c) [(a-b)^2 + (b-c)^2 + (c-a)^2]$$

$$(a+b+c)^3 = a^3 + b^3 + c^3 + 3(a+b)(b+c)(c+a)$$

 **Mahendra's**

ENSURE YOUR SUCCESS WITH- VIDEO GURU



A COMPLETE VIDEO CLASS
FOR YOUR PREPARATION

Subscribe
BUTTON 

BOOST YOUR PREPARATIONS WITH MAHENDRAS: **STUDY MATERIAL, E-MICA, E-NEWS, BAGS & MUCH MORE.** VISIT NOW: myshop.mahendras.com

If $x + \frac{1}{x} = 4$ find $x^2 + \frac{1}{x^2}$

(1) 12

(2) 16

(3) 18

(4) 14

If $x + \frac{1}{x} = 3$ find $x^3 + \frac{1}{x^3}$

(1) 16

(2) 18

(3) 20

(4) 22

If $x - \frac{1}{x} = 5$, then the value of $x^2 + \frac{1}{x^2}$

(1) 23

(2) 27

(3) 12

(4) NOT

 Mahendra's

ENSURE YOUR SUCCESS WITH- **VIDEO GURU**



A COMPLETE VIDEO CLASS
FOR YOUR PREPARATION

Subscribe
BUTTON 

BOOST YOUR PREPARATIONS WITH MAHENDRAS: STUDY MATERIAL, E-MICA, E-NEWS, BAGS & MUCH MORE. VISIT NOW: myshop.mahendras.com

If $x - \frac{1}{x} = 6$, then the value of $x^3 + \frac{1}{x^3}$

(1) 232

(2) 235

(3) 234

(4) NOT

If $x - \frac{1}{x} = 5$, then the value of $x + \frac{1}{x}$

(1) 27

(2) 29

(3) $\sqrt{29}$

(4) $\sqrt{21}$

If $x - \frac{1}{x} = 2$, find the value of $x^4 - \frac{1}{x^4}$

(1) $24\sqrt{2}$

(2) $23\sqrt{2}$

(3) $22\sqrt{2}$

(4) $16\sqrt{2}$

 **Mahendra's**

ENSURE YOUR SUCCESS WITH- **VIDEO GURU**



A COMPLETE VIDEO CLASS
FOR YOUR PREPARATION

Subscribe
BUTTON 

BOOST YOUR PREPARATIONS WITH MAHENDRAS: STUDY MATERIAL, E-MICA, E-NEWS, BAGS & MUCH MORE. VISIT NOW: myshop.mahendras.com

If $x - \frac{1}{x} = 3$, find the value of $x^3 - \frac{1}{x^3}$

(1) 40

(2) 49

(3) 32

(4) 36

If $x^2 + \frac{1}{x^2} = 38$, find the $x^3 - \frac{1}{x^3}$

(1) 240

(2) 230

(3) 236

(4) 234

$x = 7 - 4\sqrt{3}$ find value - $\sqrt{x} + \frac{1}{\sqrt{x}}$

NTPC - 2016

(1) 4

(2) 6

(3) 8

(4) 9

 Mahendra's

ENSURE YOUR SUCCESS WITH- **VIDEO GURU**



A COMPLETE VIDEO CLASS
FOR YOUR PREPARATION

Subscribe
BUTTON 

BOOST YOUR PREPARATIONS WITH MAHENDRAS: STUDY MATERIAL, E-MICA, E-NEWS, BAGS & MUCH MORE. VISIT NOW: myshop.mahendras.com

$$x + \frac{1}{4x} = \frac{3}{2} \text{ find value of } 8x^3 + \frac{1}{8x^3}$$

ALP - 2018

(1) 18

(2) 36

(3) 24

(4) 16

 Mahendra's

ENSURE YOUR SUCCESS WITH- **VIDEO GURU**



A COMPLETE VIDEO CLASS
FOR YOUR PREPARATION

Subscribe
BUTTON 

BOOST YOUR PREPARATIONS WITH MAHENDRAS: STUDY MATERIAL, E-MICA, E-NEWS, BAGS & MUCH MORE. VISIT NOW: myshop.mahendras.com

$$2x + \frac{1}{2x} = 6 \text{ find value of } x^2 + \frac{1}{16x^2}$$

(1) 8.5

(2) 7.6

(3) 9.4

(4) 5.6

 Mahendra's

ENSURE YOUR SUCCESS WITH- **VIDEO GURU**



A COMPLETE VIDEO CLASS
FOR YOUR PREPARATION

Subscribe
BUTTON 

BOOST YOUR PREPARATIONS WITH MAHENDRAS: STUDY MATERIAL, E-MICA, E-NEWS, BAGS & MUCH MORE. VISIT NOW: myshop.mahendras.com

If $x = 99$, value of $x(x^2 + 3x + 3)$ is

SSC – 2014

NTPC - 2016

(1) 1000001

(2) 99999

(3) 999999

(4) 9999999

 Mahendra's

ENSURE YOUR SUCCESS WITH- **VIDEO GURU**



A COMPLETE VIDEO CLASS
FOR YOUR PREPARATION

Subscribe
BUTTON 

BOOST YOUR PREPARATIONS WITH MAHENDRAS: STUDY MATERIAL, E-MICA, E-NEWS, BAGS & MUCH MORE. VISIT NOW: myshop.mahendras.com

$$y (y^4 - y^2 - y) \text{ when } y = 5$$

NTPC - 2016

(1) 2900

(2) 2975

(3) 2925

(4) 2995

Mahendra's

ENSURE YOUR SUCCESS WITH- VIDEO GURU



A COMPLETE VIDEO CLASS
FOR YOUR PREPARATION

Subscribe
BUTTON

BOOST YOUR PREPARATIONS WITH MAHENDRAS: **STUDY MATERIAL, E-MICA, E-NEWS, BAGS & MUCH MORE.** VISIT NOW: myshop.mahendras.c

If $(a+b+c) = 6$, $a^2 + b^2 + c^2 = 14$, $(ab+bc+ca) = ?$

NTPC - 2016

(1) 22

(2) 11

(3) 33

(4) 44

If $(a+b+c) = 6$, $a^2 + b^2 + c^2 = 26$, $(ab+bc+ca) = ?$

ssc - 2011

(1) 8

(2) 5

(3) 3

(4) 7

$a+2b = 55$, $a-2b = -13$ find value of b

NTPC - 2016

(1) 21

(2) 14

(3) 17

(4) 19

Mahendra's

ENSURE YOUR SUCCESS WITH- VIDEO GURU



A COMPLETE VIDEO CLASS
FOR YOUR PREPARATION

Subscribe
BUTTON

BOOST YOUR PREPARATIONS WITH MAHENDRAS: STUDY MATERIAL, E-MICA, E-NEWS, BAGS & MUCH MORE. VISIT NOW: myshop.mahendras.com

$w = -2, x = 3, y = 0$ and $z = \frac{-1}{2}$ find $Zw^2 \sqrt{(x^2 + y^2)}$

NTPC - 2016

(1) ± 2

(2) - 6

(3) 3

(4) 14

Mahendra's

ENSURE YOUR SUCCESS WITH- VIDEO GURU



A COMPLETE VIDEO CLASS
FOR YOUR PREPARATION

Subscribe
BUTTON

BOOST YOUR PREPARATIONS WITH MAHENDRAS: STUDY MATERIAL, E-MICA, E-NEWS, BAGS & MUCH MORE. VISIT NOW: myshop.mahendras.c

$$a - b = 5, a^2 + b^2 = 97, ab = ?$$

NTPC - 2016

(1) 72

(2) 77

(3) 33

(4) -72

Mahendra's

ENSURE YOUR SUCCESS WITH- VIDEO GURU



A COMPLETE VIDEO CLASS
FOR YOUR PREPARATION

Subscribe
BUTTON

BOOST YOUR PREPARATIONS WITH MAHENDRAS: STUDY MATERIAL, E-MICA, E-NEWS, BAGS & MUCH MORE. VISIT NOW: myshop.mahendras.c