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CUBE WITH SIMPLIFICATION



LECTURE 02

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Concept

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

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

a^3

a^2b

$2a^2b$

b^2a

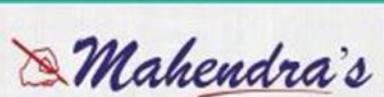
$2b^2a$

b^3

POINTS TO REMEMBER

LEARN SQUARE'S FROM 1 TO 25

LEARN CUBE'S FROM 1 TO 20



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a^3

a^2b
 $+2a^2b$

22^3

b^2a
 $+2b^2a$

b^3

DEEP ANALYSIS WITH QUESTIONS

$$36^3$$

START WITH CUBIC APPROACH

1) 29^3 

2) 48^3 

3) 59^3 

PRACTISE - EXAM PATTERN

1) $22^3 - 20^3 - X^3 = 40^2 + 319$, FIND X

PRACTISE - EXAM PATTERN CUBE WITH %

2) $50^3 - 0.X\% \text{ of } X^2 - 61000 = 0$, Find X

DEEP ANALYSIS WITH QUESTIONS

3) $32^3 \div 16^2 - x^2 = -16$, find x

DEEP ANALYSIS WITH QUESTIONS

$$4) 12^3 - 40^2 - 3 - x^3 = 0, \text{find } x$$

DEEP ANALYSIS WITH QUESTIONS

$$5) 40^3 - 61000 - x^2 = -600, \text{ find } x$$

DEEP ANALYSIS WITH QUESTIONS

6) $40^3 \div 20^2$ of 8000 - $0.5x\% = 0$, find x

DEEP ANALYSIS WITH QUESTIONS

7) $56^3 \% \text{ of } 14(2/7) = 7^2 x$, find x

DEEP ANALYSIS WITH QUESTIONS

7) 300^3 of $(33.33\%)^3 = 1000x^3$, find x