## Class-X

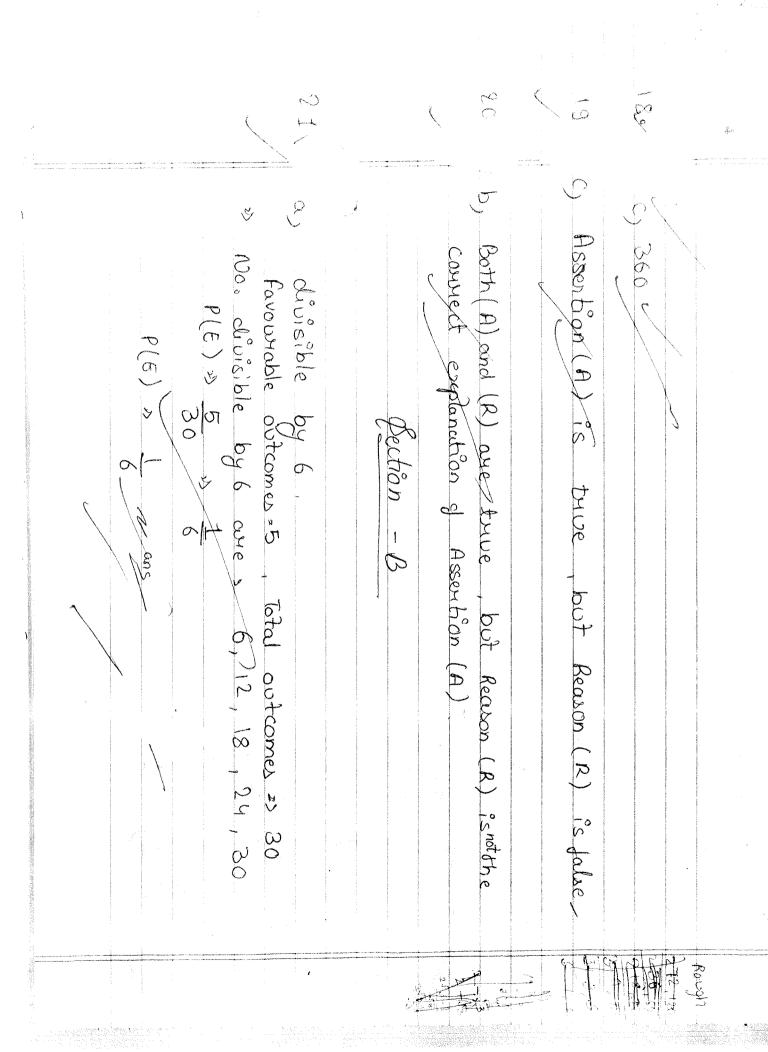
## Mathematics Basic (241)

0 Mode S 600 w 6 3 Median Section D Mean

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<u>(</u> 0 Ç 2 仄  $\subseteq$   $\bigcirc$ POW 中午十十五 14 12 2 地种爱



**(,3**%

io Jind. Cosec 45 > 12 P0 = 25 cm 5 cosec2 45° 5(12)2-5 x 2 (0,4) 0 A -大 , OA Hadius , PA = 24 (Taggent, 3 sin 290° + 5 coso° 20 Sin 90° 3 S S P-70. 25

SULT AAOP is a right angled thrangle

OP = PA2 + OA2 [Pyth agaras theasem]

(25)2 -> (24)2 + OA2

ELS = 576 + H2

625 - 576 > H2

49 + H2 Radius >  $x^{2} + 4x - 12$   $x^{2} + 6x - 2x - 12$ (x-2)(x+6) - 2(x+6)y, 7 cm LOAP - 90° contact on tangent ]

Section - C

7+475 be a mational number b to, a & b are integens (co-prime

45 > 9 - 7

4 JE > a-76

15 » a-76

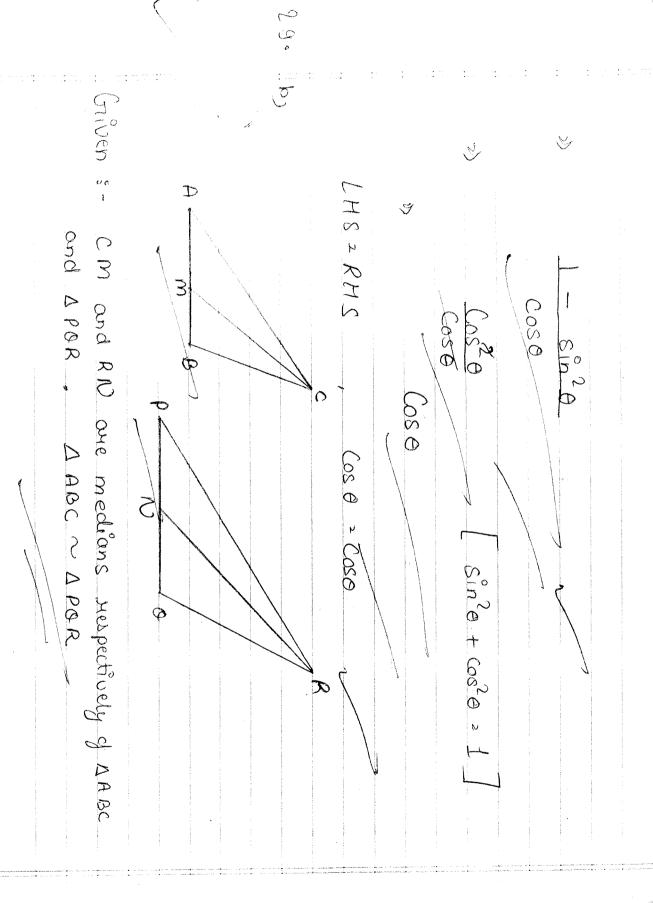
Since, a and b are intereus a-76 is rational we know that 15 is an 46 intereus. So, Contractional pumbers, Hence, 7+45 is an invariance in mumbers. 4 b Hyational number. is mational but

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HSE (Seco + tane) (1 - sino)  $sec\theta + tan \theta)(1 - sin \theta)$ Coso Cost × Cot Cos O

(080)

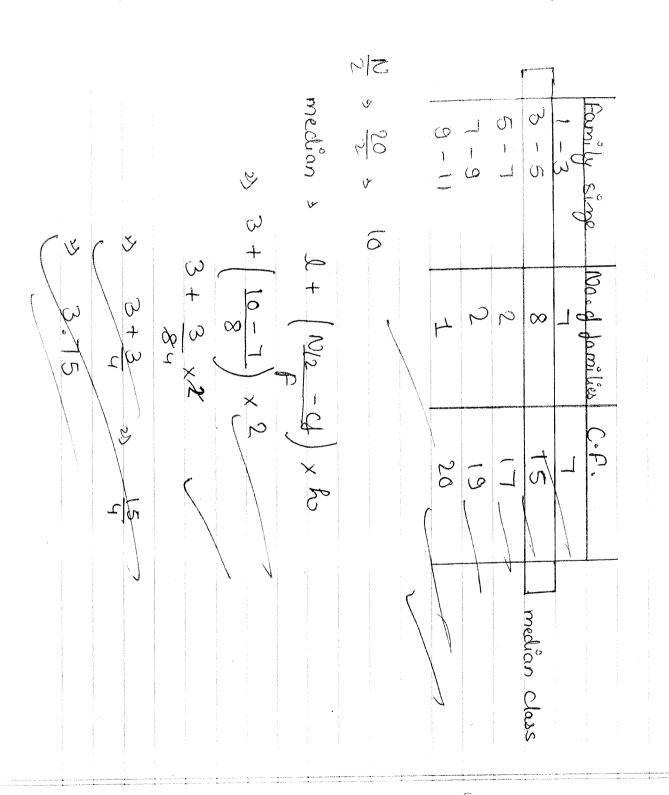
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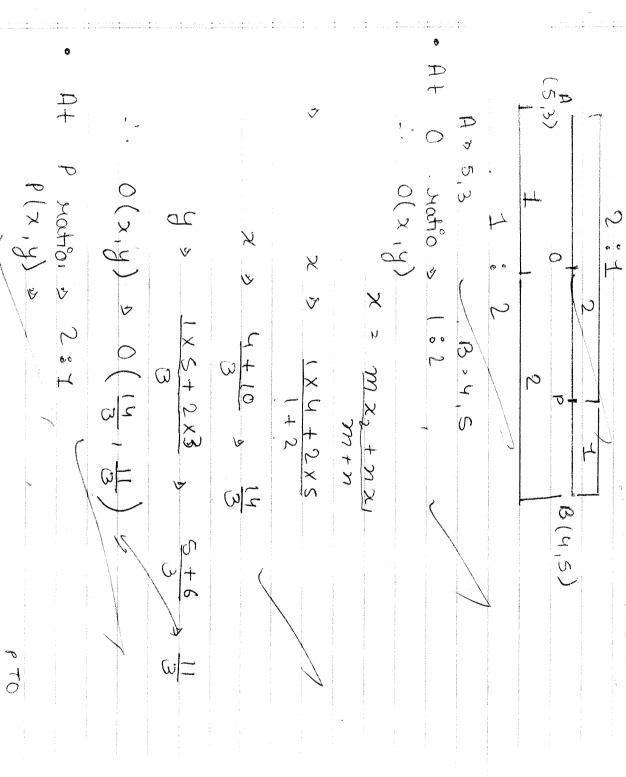


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to phone : LA = LP In A AMC and APNR DAMC ~ APNR LBY SAS PB PB LA = L P DABC ~ A POR / Cylinen DAMC NAPOR AC - AM
PR 2 AM 2 PN 10000 BC (gluca Em and RN are medians teach equal to AR Similarity

3 CE





ge#C

To pshove:  $\Delta POS \sim \Delta TOR$ pshoof: In  $\Delta POR$   $\Delta POS \sim \Delta TOR$ Phoof: In  $\Delta POR$ PO = PR [ Sides of given: OB OS PAT 2 x S + 1 x 3 8 + 5  $\omega$ L) 2 L2 2+1 apposite to equal angles are equal I WW  $\omega \omega$ 

-A

e in a contra expansiva

and the specific of the second of the second

2019/19 2119/19

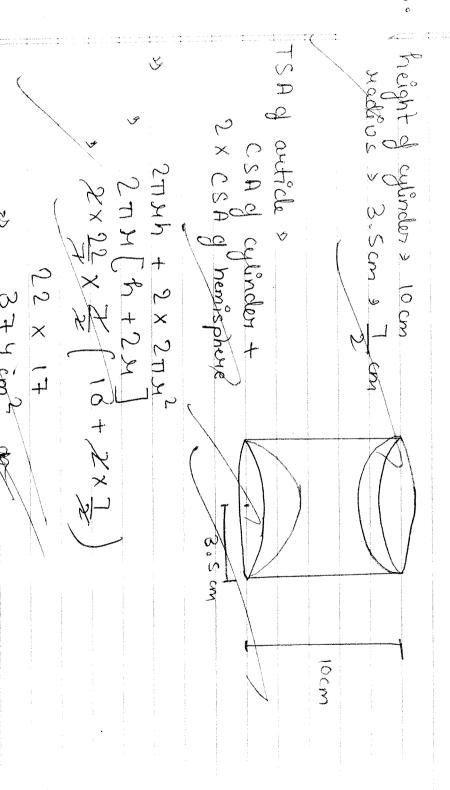
In A ABO width of river > tan 30° mê. Ja 80 » 313 m Ÿ 80 00 90 3 + 343 3 (1+43) 3 × 2.73 BC + BB S

and week

|--|

 $\frac{1}{2}(2a + (n-1)d)$  $(2 \times -13 + (24) \times 5)$ -26 + 120 Q + SXS 112

一种 150 0 150



32 E 25

VSC 15

shoutest distance of moad from the village. - madius  $0A^{2} \Rightarrow AB^{2} + OB^{2}$   $(25)^{2} \Rightarrow (20)^{2} + OB^{2}$   $625 - 400 \Rightarrow OB^{2}$   $225 \Rightarrow OB^{2}$ Shartest distance » AC > 2×20 AC· 2AB michoint of A C AC> 40m

side » cliameter madios » 4 cm length of diagonal & anea Chumberence  $\Rightarrow 2\pi 3$   $\Rightarrow 2 \times 22 \times 15$ Say pache 8 × 12 w 9 oknometer & 8 cm SIXHH 8×8 Side ? 12° 5 7 cm 2 40 812 cm 04.183 m 88 cm<sup>2</sup>

| Company | Comp PTO thii: 

Fixed charges per Km = 7 10

Charges per Km = 7 10

Fixed charges = 70, charges per Km = 7 10

Pay Jan 10 Km = 20 + 10x10 let, the 551 · RS1 + X 501 6 RO1 + X Fixed charge be 7 16 charge pour Km be 7 19 x + (w: -100 200 + U = 10] 10 × 10 , 10S 20+ (00 , 7120

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