



Padalsalai's Telegram Groups!

(தலைப்பிற்கு கீழே உள்ள லிங்கை கிளிக் செய்து குழுவில் இணையவும்!)

- Padalsalai's NEWS - Group
https://t.me/joinchat/NIfCqVRBNj9hhV4wu6_NqA
- Padalsalai's Channel - Group
<https://t.me/padasalaichannel>
- Lesson Plan - Group
<https://t.me/joinchat/NIfCqVWwo5iL-21gpzrXLw>
- 12th Standard - Group
https://t.me/Padalsalai_12th
- 11th Standard - Group
https://t.me/Padalsalai_11th
- 10th Standard - Group
https://t.me/Padalsalai_10th
- 9th Standard - Group
https://t.me/Padalsalai_9th
- 6th to 8th Standard - Group
https://t.me/Padalsalai_6to8
- 1st to 5th Standard - Group
https://t.me/Padalsalai_1to5
- TET - Group
https://t.me/Padalsalai_TET
- PGTRB - Group
https://t.me/Padalsalai_PGTRB
- TNPSC - Group
https://t.me/Padalsalai_TNPSC

BRINDHAVAN HR. SEC. SCHOOLPATTUKKOTTAJXI MATHEMATICSS.NO1. UNIT 1 - SETS, RELATIONS AND FUNCTIONS - FULL (EX 1.4 GRAPH) (X)2. UNIT 2 - BASIC ALGEBRA - FULL (PARTIAL FRACTIONS (X))3. UNIT 6 - TWO DIMENSIONAL ANALYTICAL GEOMETRY - FULL4. UNIT 7 - MATRICES AND DETERMINANTS - FULL (EX 7.3 → FACTOR THEOREM (X))5. UNIT 8 - VECTOR ALGEBRA I - FULL (EX 8.2 → COPLANAR (X)) & (THEOREM 8.1, 8.3)6. UNIT 3 - TRIGONOMETRY

1. state and prove Law of sines (or) sine formula? pg 134

2. state and prove Napier's Formula? pg 135 (X)

3. state and prove Law of cosines? pg 136.

4. state projection formula, Heron's Formula? pg 137, 139.

5. prove $\cos(\alpha + \beta) = \cos\alpha \cos\beta - \sin\alpha \sin\beta$. pg 144.

EXERCISE, 3.9 → 11, 3.7 → Full, 3.6 → 9, 4. 3.4 → 8, 19, 3.3 → 6

7. UNIT 4 - COMBINATORICS AND MATHEMATICAL INDUCTIONMATHEMATICAL INDUCTION - FULL (X)

EXERCISE 4.3 → 8

1. PROVE $nC_r + nC_{r-1} = n+1C_r$. pg 1802. PROVE $nC_r = \frac{n}{r} \times (n-1)C_{r-1}$. pg 181.8. UNIT 5 - BINOMIAL THEOREM, SEQUENCES AND SERIES.

EXERCISE 5.1 → 12, 16, 9

EXAMPLE

EXERCISE 5.2 → 7, 9, 10.

5.24, 5.25 (X)

EXERCISE 5.3 → 3, 7

EXERCISE 5.4 → 2, 3, 4.

1. Theorem 5.2, pg. 214

2. Theorem 5.3 pg. 216 (X)

9. UNIT 12 - INTRODUCTION TO PROBABILITY THEORY - FULL (X)
(EX 12.4 → BAYES THEOREM (X))

10.

UNIT 9 - DIFFERENTIAL CALCULUS - LIMITS AND CONTINUITY

1. State Sandwich Theorem ? (X) page 111

2. prove $\lim_{\theta \rightarrow 0} \frac{\sin \theta}{\theta} = 1$ page 1133. EXERCISE 9.3 $\rightarrow$ 8 (all)EXERCISE 9.4 $\rightarrow$ 9, 18EXERCISE 9.5 $\rightarrow$ 9 (i), 10.

EXAMPLE 9.5, 9.26, 9.31.

11.

UNIT 10 : DIFFERENTIAL CALCULASEXERCISE 10.1 $\rightarrow$ 3 (iii).EXERCISE 10.4 $\rightarrow$ 28, 24, 25, 26, 27

12.

UNIT 11 : INTEGRAL CALCULUSEXERCISE 11.11 $\rightarrow$ allEXAMPLE 11.40 $\rightarrow$ allI & II VOLUME BOOK BACK ONE MARKS $\rightarrow$ 135 + 150 = 285.**BEST OF LUCK ...**

V. SELVENDIRAN MSc., M.Phil., B.Ed.,

HOD. DEPT. OF MATHS

BRINDHAVAN HR. SEC. SCHOOL

PATTUKKOTTAI.