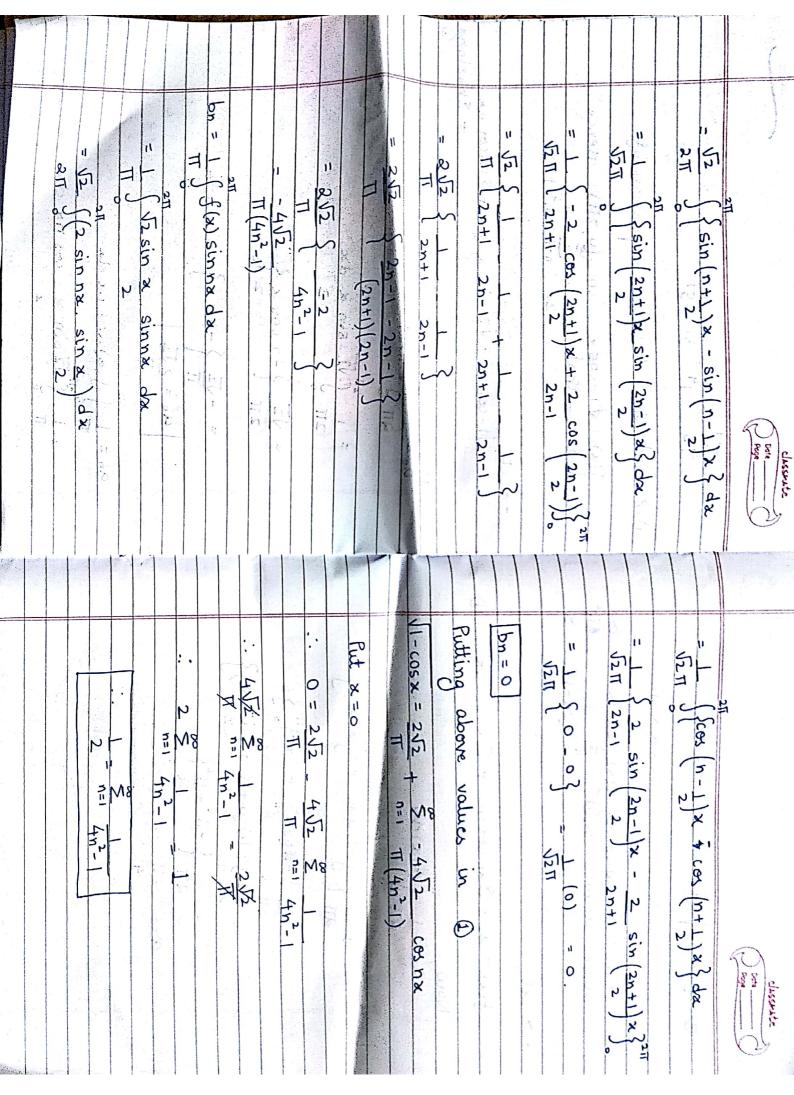
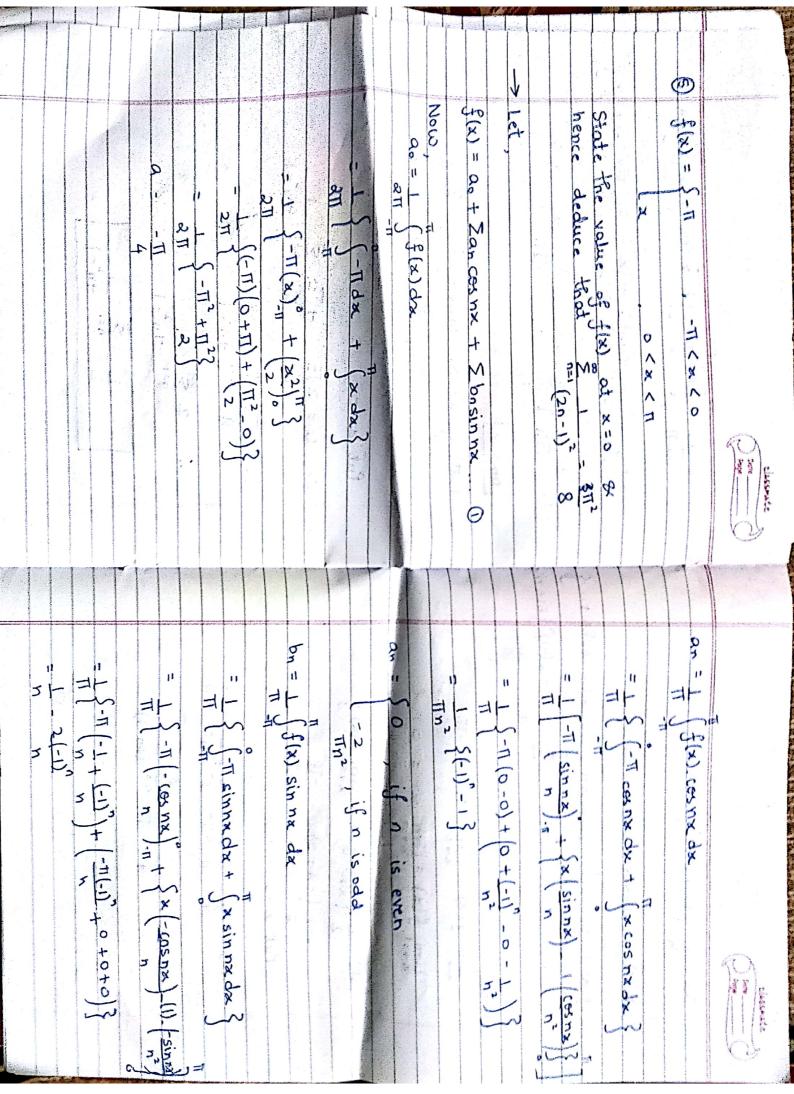
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| 2                             |                |  |
|-------------------------------|----------------|--|
| ( VZ sin & cos nx dx          |                |  |
|                               | 7              | 12 11 34 57  |
| f(x).cos nx dx                | 9n = 1         | 18 1+  |
| 211                           |                | 3  |
|                               |                |  |
| 0 = 21/2                      | 90             |  |
|                               |                | 1111+1-16 ) 1++4+  |
| - VZ /-1-15 - 252             | и              | inus   |
|                               |                | 2 3  |
| T ( 2 )0 11                   | 211            | X  |
| 2 } - 2 (                     | = 12           | C  |
|                               | 1              | 1 1 1 1  |
| 2                             | 211            |  |
| MIS IN                        |                | 1  |
| 1                             |                |  |
|                               | 2              |  |
| (J(x) 0x                      | 00 = T         | 21 3 1 2 7 7   |
| 277                           | Now            | 7  |
|                               | Non            | 211  |
|                               |                | 1 C 5(x)3-dx = 1 ( xb-xb ) 1 = xb-5(x)2}   |
| 2 - +                         |                | П 2П   |
| COSX = 12 sin x ant Sances nx | 1-             | Consider   |
|                               | -> Let         |  |
|                               |                |  |
| 2 n=1 4m2-1                   |                | x 6 5 (x) 52 dx  |
| V8                            | deduce         | 2 11   |
| in (0 217) tense              | £(x) = \       | Bu Parsevals Iolentitu   |
|                               |                | ten best beginning to the state of the state |
| Four or Cylonein of           | 4) => Hind the | <b>ω</b> ,   |
| - 20                          |                | 4 5 1 COS X +  |
| 14 + 34 + 54 +                | 96             |  |
|                               | 174            | Putting above values in 0  |
| nner                          |                | ( Abgar  |
| classmate                     |                | classoute  |
|                               |                | The state of the s |

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| classmate  Page  Page  | $\frac{f(x)}{g(x)} = 0 = 0$ $\frac{f(x)}{g(x)} = 0 = 0$ $\frac{g(x)}{g(x)} = 0$ $\frac{g(x)}{$ |
|--|--|
| bn = 1 {1-2(-1) <sup>n</sup> }   | id to be even if   |
| Putting above values in (1)  | $cg \vdash f(x) = f(x)$ $d by C$   |
| $f(x) = -\pi$ 2 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \  | tion f(x) is said to be odd if   |
| N  | f(-x) = -f(x)  |
| $\frac{1}{2} = \frac{1}{2} $ | d d  |
| b(x) 1/2   | In case of even function.  |
| ) o - (  | $a_0 = 1 \int f(x) dx$   |
| 1 (x) = (m) + (x) = (m) + (m)  | an = 2 (f(x) cos nIIx dx   |
| \$(0) = 1 (1: - P(-) + 1 im E(x) }   | bn = 0   |
| 2 (x+o-) (x) 7 (x)   |  |
| $\frac{1}{1} = \frac{1}{1} = \frac{1}{1} = \frac{1}{1}$  | In case of odd function:   |
| 0  | $Q_0 \equiv Q$   |
| +2-5-2000-1-1-2-5  | = $2 \left( f(x) \sin n \right)$   |
| 4 17 (12   | (XC) 1017 (XX) X   |
|  |  |
| $\frac{1}{n} = \frac{1}{2} \left( \frac{1}{2n} + \frac{1}{2n} \right)^{\frac{1}{n}}$   | J(x) E 0 0 E   |
| 1 10 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  | 9(x) E 0 F 0   |
|  | f(x),q(x) ∈ ∈ o o  |
|  |  |
|  |  |

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|      | Tr2 (12 32  | (x), a(x)  | 711                |
|------|---|--|--------------------|
| 7    | \$ 1 cos x + 1 cos 3 x +  | an cosna (1)   | f(x) = a0 + 5      |
| 1    |   | 0 : 0  |                    |
|      | putting above volues in ()  |  | let,               |
| 27   |   | (a) Y  | 1)                 |
| . +  | 18 if n is odd  | 1.   | bn = 0             |
|      |   | even function  | f(x) is e          |
| as . | an = So if n is even  | 3  | •                  |
|      |   | $(i) \cap (i) $ | (x) } :            |
|      | Ting (  |  |                    |
|      | = 4 \$1-(-1)^3  | T 0 200  |                    |
|      |   | > x > 11-  |                    |
|      | TIMZ  | 660 to 3200  | ·: raits           |
|      | = 2 \ \( \) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \   | 15×50 × × × × × × × × × × × × × × × × × ×  | = 1-2x             |
| L    |   | $p^{\mu} = 0$  |                    |
|      |   |  |                    |
|      | $-2 \le (1-2x) (\sin nx) (-2) (-\cos nx) \le (-2) (-\cos nx) \le (-2) (-\cos nx) = (-2) (-2) (-2) (-2) (-2) (-2) (-2) (-2)$ | 2× 0 / - × / / / /   | ×1+2               |
| 1 1  |   | TH ( ) - 1 × 1 6 3   | J(-x) = 1-2        |
|      | 1   | 11   |                    |
|      | 2. 1/1-2x/ (os nx dx  | 4 A 96.9 10 93.00 N X  | Texe, as more      |
|      | an = 1 J(x) Cos na ax   |  |                    |
|      |   | X 2/0 7 (0x) /- pps  |                    |
| 1    | = + \711-11-0\5   | 835-57-17  | 8 12               |
| Sca  | TT TJO  |  | Deduce TT = 1      |
| nn   | = 1 \ x - x <sup>2</sup> \"   | DZ N (x) + noithput  | 2) 1000 so 101 so  |
| ed i |   | 0 \x \ \ \   | L   - 2x           |
| by   | 7 7 ( 7)  | 8 (8) 7 T (8) 7 T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1  |                    |
| Ca   | $= 1 \left( \left( 1 - 2x \right) dx \right)$   | -TI-(>×/>0   | f(x) = > 1+2x      |
| mS   | 7 00  |  |                    |
| Scar | 00 = 1 (f(x) dx   | series i for pointing  | - Obtain Formier & |
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