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Q4. AXX AP > to (x = h) For P, DN X mp X AVP = 4 10 10 AVe- mp AVp mo 1667×10-27 Kg AVP 05 Notes
20 D le must be continuous & single valuel. 2) dy dy dy must be continuous & single valued. 3) If must be normalizable which means that

If must go to 0 is n > +00. In order to that JUP av over call the space be in finite constant. Trecon multiply 4 (orth) by a constant say Nordo

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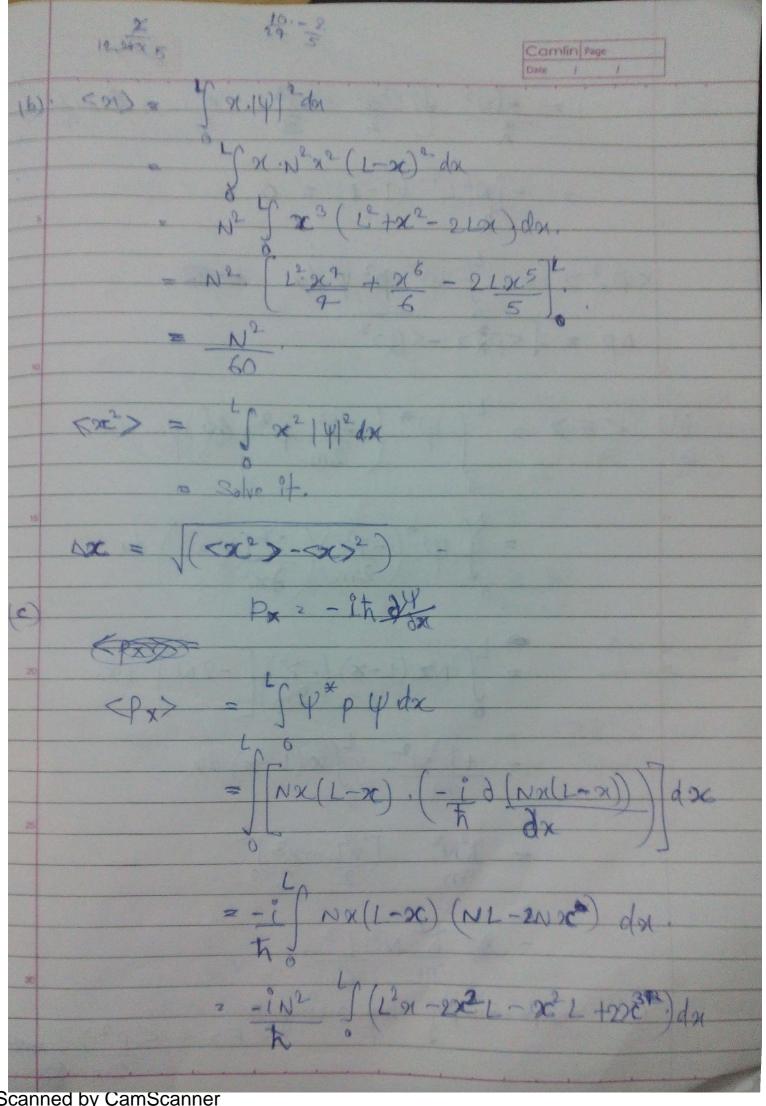
(a). Y = Areex.
Nota wave of (because it is discontinuous) Y = Atanox Not a wave of (discout.) OUP = Ac. 2 horant property that also appropries the conditions 4000 the satisfies condition that at x > 0, y=0 (a) $\psi = Asinx$.

It is a mano for (satisfies conto & differ) TOSE

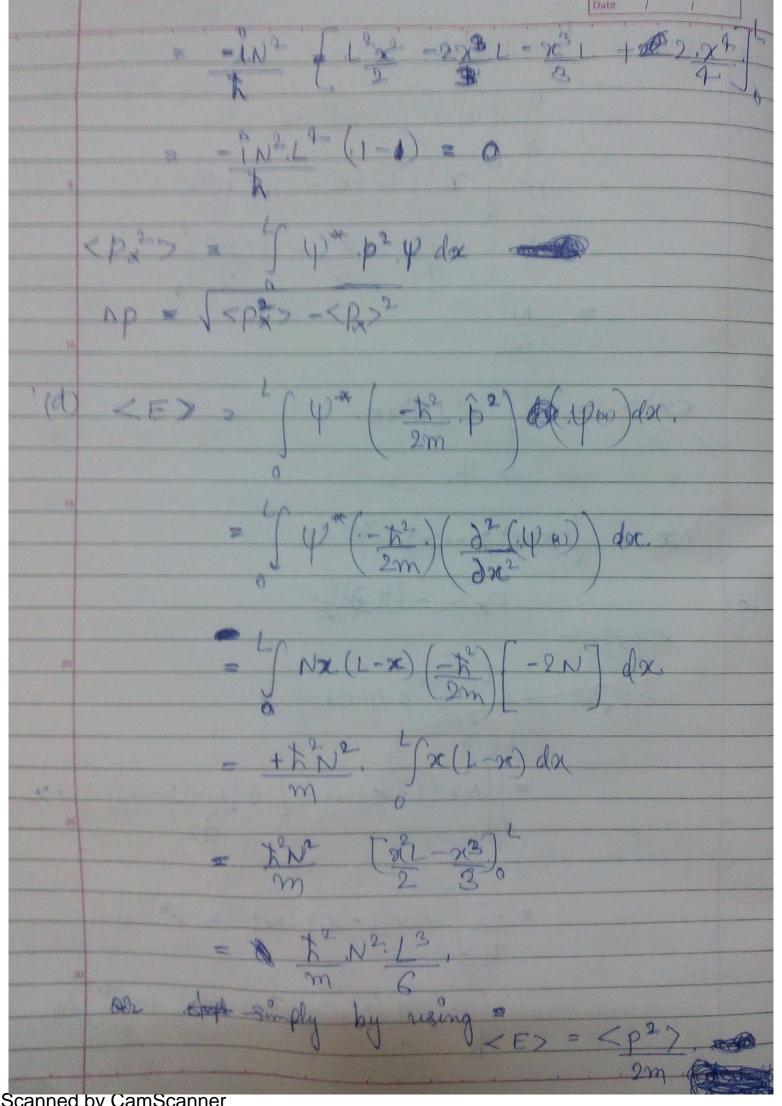
FOR Y 2 AC = (FT-PR) function

it dyon = -12 12 per + Unipper

2m dec + Unipper $= -\frac{1}{2m} \cdot \frac{3^2 \psi(00)}{3n^2} + \frac{1}{2m} \psi(00)$ Ey (x) the defined y box is a caren (10 (a). As n -> 00, also SIVI'de = I Na(Lor) do result be a Scanned by CamScanner



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