

Ques 3.011) Solve $\int (3x+7)^7 dx$.

$$= \int (3x+7)^7 dx$$

$$= \int \frac{(3x+5+2)^7}{(5+2)} dx$$

$$= \int \frac{3x+5}{(5+2)} dx - \left(\frac{7}{7} \right)$$

$$= \int \frac{3x+5}{7} dx = \int 3x+5-7 dx$$

$$= 4x + 5 - 7$$

$$= 4x + (-2)$$

$$= \underline{\underline{4x-2}} \text{ Ans.}$$

12) Write the general equation of circle.

Ans: The general form is -

$$x^2 + y^2 + Dx + Ey + f = 0,$$

where D, E, f are constants.