

Ques 31- (i) Solve $\int (3n+7)^7 dn$

Sol:- $I = \int (3n+7)^7 dn$
 $= \frac{(3n+7)^{7+1}}{7+1} \times (3n^2 + 7n + c)$
 $= \frac{(3n+7)^8}{8} (3n^2 + 7n) + c$

(ii) Write the general equation of circle.

Sol:- eqn of circle is, $x^2 + y^2 + 2gx + 2fy + c = 0$
centre = $(-g, -f)$

radius = $\sqrt{g^2 + f^2 - c}$