$$(11 \times 9'' + 9' = 0$$

$$(xy')' = 0$$

$$\chi g' = C,$$

$$dg = \frac{C}{X} dx$$

(2)
$$5^2 + 1 = 0$$

 $5 = \pm i$

$$A = \frac{1}{1 - a^2}$$
 . $B = 0$

$$y = C_1 \cos \chi + C_2 \sin \chi + \frac{1}{1-\alpha^2} \cos \alpha \chi$$

$$y = c_i \cos x + c_i \sin x + \frac{1}{2}x \sin x$$

$$\gamma = -\frac{1}{2}x\sin x$$

$$\frac{d}{dy} (2y - \sin x) \, \ell(x) = 2 \, \ell(x)$$

$$\frac{d}{dx} \times \ell_{(2)} = \ell_{(2)} + \chi \ell_{(2)}$$

$$\ell'(x) - \frac{1}{x} \ell(x) = 0$$

$$\mathcal{L}_{(x)} = cx$$

$$d\left(cx^2y+cx(csx-sinx)\right)=0$$

$$C_1x^2y + x \cos x - \sin x = c_2$$

$$\chi^2 y + \chi \cos \chi - \sin \chi = C$$