2./

$$y = \frac{1}{2} = \frac{1}{2} = \frac{1}{2} = \frac{1}{2}$$

$$y' = \frac{2}{2} = \frac{2}{2}$$

$$y' = \frac{2}{2} = \frac{2}{2}$$

$$Z' + \left(-\frac{1}{x} + \frac{2}{x}\right) Z = -\frac{1}{x^2}$$

$$S \neq dx$$

$$C(x) = Q$$

$$[((x)z]' = \int -\frac{1}{x^2} dx$$

$$Z = x'' \left(\frac{1}{x} + C\right)$$

$$\Rightarrow y = x^2 + \frac{x^2}{1+cx}$$

2.3
$$x^{2}y' + 6x^{2}y^{2} - 1 = 0$$

$$y' = \frac{1}{x}$$

$$4' = \frac{1}{x} - 6y^{2}$$

$$4 = \frac{1}{2x} + \frac{1}{2}$$

$$2' + (\frac{-6}{x})z = 6$$

$$e(x) = e^{-\frac{5}{x}}dx = x^{-\frac{5}{x}}dx$$

$$2 = x^{6}(-\frac{6}{x}x^{-\frac{5}{x}} + c)$$

$$= -\frac{6x - 5cx^{6}}{x}$$

$$y' = \frac{1}{x}$$

$$y' = cocx - 1 sinxtanx + y'$$

$$y' = cos x - \frac{1}{2} sin x + an x + \frac{y^2}{2cos x}$$

$$Z = cos \times \left(-\frac{1}{2} tan \times + C\right)$$

$$y = \frac{2}{2 \cos x - \sin x}$$

$$y(x=0) = \frac{1}{c} = 2019$$