

$$y' = -\frac{F'_x}{F'_y} = -\frac{12 - \frac{1}{r\sqrt{x}}}{-r\sin y - ry^{-r}}$$

$$\rightarrow) \quad \epsilon x^r y^r = 1 - y^r \cos x$$

$$F(x, y) = \epsilon x^r y^r - 1 + y^r \cos x = 0$$

$$y' = -\frac{F'_x}{F'_y} = -\frac{1rx^r y^r - y^r \sin x}{12^r y + ry \cos x}$$

$$\rightarrow) \quad \sqrt{r2 - y^r} + \omega x^r \ln y = 0$$

$$F = \sqrt{r2 - y^r} + \omega x^r \ln y = 0$$

$$y' = -\frac{F'_x}{F'_y} = -\frac{\frac{r}{2\sqrt{r2 - y^r}} + \ln x \ln y}{\frac{-ry^r}{2\sqrt{r2 - y^r}} + \omega x^r \frac{1}{y}}$$

$$(\sqrt{u})' = \frac{u'}{\sqrt{u}}$$

$$\rightarrow) \quad r \cos(xy^r) - ye^x = 0$$

$$F(x, y) = r \cos(xy^r) - ye^x = 0$$

$$y' = -\frac{F'_x}{F'_y} = -\frac{-ry^r \sin(xy^r) - ye^x}{-rxy \sin(xy^r) - e^x}$$

$$(\cos u)' = -u' \sin u$$