$$y' = \frac{-2x}{uy^2} = \frac{-x}{3y^2}$$

$$y' = \frac{-2x}{uy^2} = \frac{-x}{3y^2} \qquad \frac{dy}{dx} = \frac{-x}{3y^2} = y'$$

$$\frac{dx_3}{d_3x_4} = \frac{3}{3}$$

$$\frac{d^{2}y}{dx^{2}} = ? \qquad \frac{d^{2}y}{dx^{2}} = \frac{3y^{2}(-1) - (-x)(by) \cdot y'}{(3y^{2})^{2}}$$

$$= \frac{-3y^{2} + \sqrt{2}xy(\frac{x}{2y})}{qy^{4}}$$

$$= \frac{-3y^{2} + -\frac{2x^{2}}{y}}{qy^{4}}$$

$$= \frac{(-3y^{2} - \frac{2x^{2}}{y}) \cdot \frac{1}{qy^{4}}}{qy^{4}}$$

$$= \frac{-3y^{2} - \frac{2x^{2}}{y} \cdot \frac{1}{qy^{4}}}{qy^{5}} = \frac{-3y^{3} - 2x^{2}}{qy^{5}}$$

$$2x + 2yy' = C$$

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

$$2x + 2yy' = 0$$
  $y' = -\frac{2x}{2y}$   $y' = \frac{dy}{dx} = -\frac{x}{y}$ 

$$\frac{d^2y}{dx^2} = \frac{y(-1) - (-x)y'}{y^2} = \frac{-y + xy'}{y^2} = \frac{-y + x(\frac{x}{y})}{y^2}$$

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

$$-\frac{y}{y} + \frac{y}{y^3}$$

$$-\frac{y^{2}-x^{2}}{y^{3}}=-1(y^{3}+x^{3})$$

$$\frac{-\frac{1}{3} - \frac{1}{3} + -\frac{1}{3}}{y^{3}} = \frac{-\frac{1}{3} - \frac{1}{3}}{y^{3}} = \frac{-\frac{1}{3}}{y^{3}} = \frac{-\frac{1}{3}}{y$$