$$2b) \frac{\partial y}{\partial x} = -\frac{1}{2y}$$

$$2y dy = -dx$$

$$\int 2y dy = \int -1 dx$$

$$y^{2}+C_{1}$$
 $-x+C_{2}$
 $y^{2} = -x+C_{2}-C_{1}$
 $= -x+C_{3}$

 $y = \pm \sqrt{-x + c_3}$