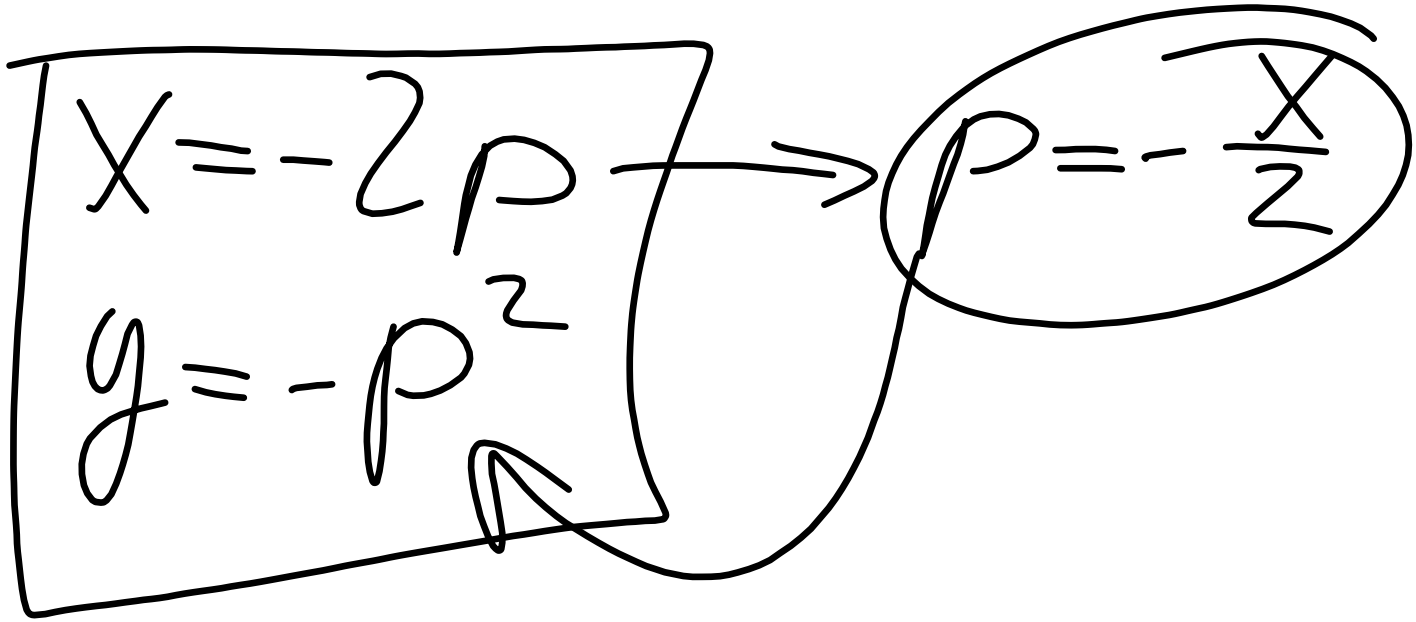
$$y' = a(x)\,y + b(x)$$

$$\left(y^{-1}\right)' = (-1)\cdot y^{-2}\cdot y'$$

$$y = xy' + y' = y' \cdot (x+1)$$

$$y' = \frac{y}{x+1} = \left(\frac{1}{x+1}\right) \cdot y$$


x = -2p
y = -p²
p = -x/2

$$y = C \cdot x + f(C) \qquad f(t) = \sqrt{-t}$$

$$y = Cx + \sqrt{-C}$$

$$X = -m \qquad \left(\sqrt{-t}\right)' =$$

$$= (-t)^{-\frac{1}{2}} \cdot \frac{1}{2} \cdot (-1)$$

$$y' = a(x) \cdot y + b(x)$$

$$x' = a(p) \cdot x + b(p)$$

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

$$u' = \frac{2u}{x} \qquad u = c \cdot e^{\int \frac{2}{x}\,dx}$$

$$= c \cdot e^{2 \cdot \ln|x|} = c \cdot x^2$$