

Calc 2

→ Not SMART

①  $\frac{dy}{dx} = 10xy$

$\int y^{-2} dy = \int 10x dx$

$\Rightarrow -y^{-1} = 5x^2 + C$

$y = .2 \quad x = 3$

$y = \frac{-1}{5x^2 + C}$

$\rightarrow -5 = 45 + C$

$-50 = C$