

Quiz 3  
2/25/4

$$y' = y^2(2x-2)$$

$$y(0) = -1$$

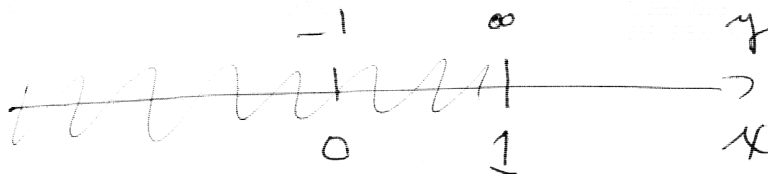
$$\frac{y'}{y^2} = 2x - 2 \quad \text{or} \quad y \neq 0$$

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

$$-\frac{1}{-1} = 0^2 - 2 \cdot 0 + C \Rightarrow C = 1$$

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

$$y = -\frac{1}{(x-1)^2} \quad (x \neq 1)$$



$$y = -\frac{1}{(x-1)^2} \quad \text{for} \quad x < 1$$