## Tugas Kalkulus Sesi 9

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1	19'	= 1
	200	2++1

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

$$\frac{1}{dy} = \frac{2x}{x^2 + 1}$$

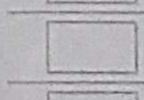
$$\frac{1}{x^2+1} \cdot \frac{dy}{dx}$$

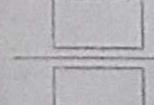
$$\int_{0}^{\infty} \frac{1}{x^{2}} y + C_{1} = \int_{0}^{\infty} \frac{2x}{x^{2}+1} dx$$

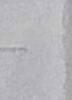
$$\frac{2}{(1+x^2)dy} - xy dx = 0$$

$$\frac{(1+x^2)dy}{(1+x^2)dy} = xy dx$$

DATE :







$$3$$
  $y' - \frac{x}{y} = 0$ ,  $y(2) = 0$ 

$$y = \sqrt{x^2 - 4}$$

$$y = \sqrt{x^2 - 2^2}$$

$$y = \sqrt{(x+2)(x-2)}$$

$$\frac{1}{\sqrt{\frac{dy}{dx}}} = x$$

$$y^2 = x^2 + 21/2$$

$$y = \pm \sqrt{\chi^2 + 2k}$$

$$\Rightarrow 0 = \sqrt{2^2 + k} - y(2) = 0$$

$$\sqrt{2^2+4} = 0^2$$

4 y'+x2y=0, y(1)=1	
3 . 5x2dx	
- 1 x3 + C	$\frac{\times^3}{3}$
$\frac{1}{2}$	$V = \frac{x^3}{3} = \frac{1}{3} - \frac{x^3}{3}$
- 23 - ×3	X3 - X3
	$\frac{1}{1} - \frac{2^{1/2}}{3}$
=> \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	y=e <sup>3</sup>
e dx + e (x y) = e .0	$\frac{1}{\sqrt{1-\frac{x^3}{2}}}$
×2 du , 2 ×3	y=e= 1
e 3 dx + x ye3 =0	
Jæleggjdx = Jodx	
· e <sup>3</sup> y = ) odx	
e s y = C	
o e 3 y = C	
$e^{\frac{x^2}{3}}$	
y = e = = = = = = = = = = = = = = = = =	
→ 1 = e±	
1 e = 1	
· e <sup>1</sup> / <sub>3</sub> · c = e <sup>1</sup> / <sub>3</sub> · 1	
e's	
$C = e^{\frac{1^2}{3}}$	