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$$(3) y'^{2} + \chi y = y^{2} + \chi y'$$

$$(y'-y)(y'+y) = x(y'-y)$$

$$y' = y \text{ or } y' + y = x$$

$$y = ce^{x}$$
 or $y = x - 1 + \frac{c}{e^{x}}$

$$\frac{dy}{dp} + \frac{1}{2p} = \frac{1}{p^2}$$

$$\frac{dy}{dp} (p^2 + \frac{1}{2p}) = \frac{1}{p^2}$$

$$\frac{dy}{dp} + \frac{1}{2p^2} = \frac{1}{p^2} + \frac{1}{p^2} + \frac{1}{p^2} = \frac{1}{p^2}$$

$$\frac{dy}{dp} + \frac{1}{2p^2} = \frac{1}{p^2} + \frac{1}{p^2} + \frac{1}{p^2} = \frac{1}{p^2}$$

$$\frac{dy}{dp} + \frac{1}{2p^2} = \frac{1}{p^2} + \frac{1}{p^2} + \frac{1}{p^2} = \frac{1}{p^2}$$

$$\frac{dy}{dp} + \frac{1}{2p^2} = \frac{1}{p^2}$$

$$\frac{dy}{dp} + \frac{1}{p^2} = \frac{1}{p^2}$$

$$\frac{dy}{dp} + \frac{1}{p^2$$

1 y= = 1 (9x-1)=

2.
(1)
$$2+y'-y=y' M(yy')$$
 $2+yy'-y^2=yy' M(yy')$
 $2+y^2-y^2=yy' M(yy')$
 $2+y^2-y^2=yy' M(yy')$
 $2p\chi-2t=pMp$
 $2p\chi-2t=pMp$

$$27 \times 10^{2}$$
 27×10^{2}
 27×10^{2}

ydy = ezxtdx

1/2+c = 1/2 ex-1

y= + (= 2x1 + C

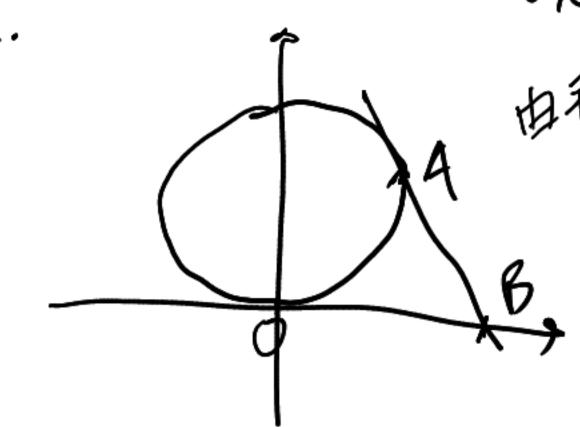
(3)
$$y'^2 - 2xy' = x^2 - 4y$$

 $(y' - x)^2 = 2x^2 - 4y$
 $p = y' - x$ $p^2 = 2x^2 - 4y$
 $2p \frac{dP}{dx} = 4x - 4(p + x) = -4p$
 $\frac{dP}{dx} = -2$ or $p = 0$
 $y = \frac{1}{2}x^2 + C$ or $y = -\frac{1}{2}x^2 + C$
 (x^2) , (x^3) $y = \pm \frac{1}{2}x^2$

3.
$$xy = a^{2}$$
即可 $(x_{0}, \frac{a^{2}}{2})$ 处切线 $y = -\frac{a^{2}}{2}(x_{0}, x_{0}) + \frac{a^{2}}{2}$ 交坐行始于 $(\frac{2a^{2}}{2}, 2x_{0})$ (x_{0}, x_{0}) (x_{0}, x_{0})

月起2.6

歌笛丁:(汉门少了)



4.
$$y = \int_0^x y_1 dt + x + 1$$

5. y"+sin 4 =0

y=T是X→+DOI Y=T的合起解.井

6.
$$f_{E(x, r)} = 3$$

$$\int_{1}^{xy} f_{1} dt = x \int_{1}^{y} f_{1} dt + y \int_{1}^{x} f_{1} dt, \quad x, y = 0$$

$$f_{(1)} = 3, \quad f_{(1)} = ?$$

$$2d \times x^{\frac{1}{2}}, \frac{1}{3} \quad y f_{(1)} = ?$$

$$4 \times y^{\frac{1}{2}}, \frac{1}{3} \quad y f_{(1)} = ?$$

$$4 \times y^{\frac{1}{2}}, \frac{1}{3} \quad y f_{(1)} = ?$$

$$4 \times y^{\frac{1}{2}}, \frac{1}{3} \quad y f_{(1)} = ?$$

$$f_{(1)} = 3 + f_{(2)}$$

$$f_{(1)} = 3 + f_{(2)}$$

$$f_{(2)} = 3 + f_{(2)}$$

$$f_{(3)} = 3 + f_{(3)}$$

$$f_{(4)} = 3 + f_{(4)}$$

$$f_{(4)} = 3 +$$

7.
$$x_{7} - 1 \text{ Pd}$$
, $f'(x) + f(x) - \frac{1}{x+1} \int_{0}^{x} f(x) d(x) , f(x) = 1$
 $x_{7} \circ x_{7}, e^{-x} ef(x) \in I$
 $x_{7} \circ x_{7}, e^{-x} ef(x) \in I$
 $x_{7} \circ x_{7}, e^{-x} ef(x) \in I$
 $f'(x) = f(x) + f'(x) + f'(x) + f'(x)$
 $f'(x) = f(x) + f'(x) + f'(x) + f'(x)$
 $f'(x) = f(x) + f'(x) + f'(x) + f'(x)$
 $f'(x) = f(x) + f'(x) + f'(x) + f'(x)$
 $f'(x) = -f(x) + f'(x) + f'(x) + f'(x)$
 $f'(x) = -f(x) + f'(x) + f'(x) + f'(x)$
 $f'(x) = -f(x) + f'(x)$
 $f'(x) = -f$

月至 3.3 (I) $|y_{n}(x)-y_{o}|=|\int_{x_{o}}^{x-dn}f(s,y_{n}(s))ds|$ $\leq \int_{X_{n}}^{X-dn} |f(s, y_{n}(s))| ds$ < Mh そりいわり一至年 $|y_n(x_1)-y_n(x_2)|=|\int_{x_0}^{x_1-dn}f(s,y_n(s))ds-\int_{x_0}^{x_2-dn}f(s,y_n(s))ds|$ $= \left| \int_{x_{-}-dn}^{x_{1}-dn} f(s-y_{n(s)}) ds \right| \leq M |x_{1}-x_{2}|$ 由A一A正理,从外有证证于为为为了 $y_{nj}(x) = f_0 + \int_{x_0}^{X-dr_j} f(s, y_{nj}(s)) ds$ $j\rightarrow p$ 时, $y_{ij}(y)$ $\Rightarrow p(x)=y_0 + \int_{x_0}^{x} f(s,\phi(s)) ds$ talsing $|y_{m}(x) - y_{n}(x)| = \begin{cases} 0 & \chi \in [x_{0}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{m}} f(s, y_{m}(s)) ds| & \chi \in [x_{0} + \frac{1}{m}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{m}} f(s, y_{m}(s)) ds| & \chi \in [x_{0} + \frac{1}{m}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{m}} f(s, y_{m}(s)) ds| & \chi \in [x_{0} + \frac{1}{m}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{m}} f(s, y_{m}(s)) ds| & \chi \in [x_{0} + \frac{1}{m}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{m}} f(s, y_{m}(s)) ds| & \chi \in [x_{0} + \frac{1}{m}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{m}} f(s, y_{m}(s)) ds| & \chi \in [x_{0} + \frac{1}{m}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{m}} f(s, y_{m}(s)) ds| & \chi \in [x_{0} + \frac{1}{m}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{m}} f(s, y_{m}(s)) ds| & \chi \in [x_{0} + \frac{1}{m}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{m}} f(s, y_{m}(s)) ds| & \chi \in [x_{0} + \frac{1}{m}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{m}} f(s, y_{m}(s)) ds| & \chi \in [x_{0} + \frac{1}{m}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{m}} f(s, y_{m}(s)) ds| & \chi \in [x_{0} + \frac{1}{m}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{m}} f(s, y_{m}(s)) ds| & \chi \in [x_{0} + \frac{1}{m}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{m}} f(s, y_{m}(s)) ds| & \chi \in [x_{0} + \frac{1}{m}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{m}} f(s, y_{m}(s)) ds| & \chi \in [x_{0} + \frac{1}{m}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{m}} f(s, y_{m}(s)) ds| & \chi \in [x_{0} + \frac{1}{m}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{m}} f(s, y_{m}(s)) ds| & \chi \in [x_{0} + \frac{1}{m}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{m}} f(s, y_{m}(s)) ds| & \chi \in [x_{0} + \frac{1}{m}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{m}} f(s, y_{m}(s)) ds| & \chi \in [x_{0} + \frac{1}{m}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{m}} f(s, y_{0} + \frac{1}{m}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{m}} f(s, y_{0} + \frac{1}{m}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{m}} f(s, y_{0} + \frac{1}{m}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{m}} f(s, y_{0} + \frac{1}{m}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{m}} f(s, y_{0} + \frac{1}{m}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{m}} f(s, y_{0} + \frac{1}{m}, x_{0} + \frac{1}{m}] \\ |\int_{x_{0}}^{x - \frac{1}{$ (2) 只需证明台外的产业收款。加力的过 $\left|\int_{X_{0}}^{X-m}f(s,y_{m}(s))ds\right|\leq\left(\frac{1}{n}-\frac{1}{m}\right)M,\quad\chi\in\Gamma_{X_{0}}+\frac{1}{m},\quad\chi_{0}+\frac{1}{n}\right].$ $3\chi \in [Y_0 + \dot{\eta}, Y_0 + \dot{\eta}],$ $|y_m(x) - \dot{y}_n(x)| = \int_{X_0}^{X_0 - \dot{\eta}} f(s, y_m(s)) - f(s, y_n(s)) ds + \int_{X_0 - \dot{\eta}}^{X_0 - \dot{\eta}} f(s, y_n(s)) ds$

```
|f(s,ym(s))-f(s,yn(s))| 三人|ym(s) - yn(s)|
       |y_{m}(x)-y_{n}(x)| \leq \int_{x_{0}}^{x-h} L|y_{m}(s)-y_{n}(s)| ds + |\int_{x-h}^{x-h} f(s, y_{n}(s))ds
               il ax = [xoth 1 | 1/n(s) - yn(s)] ds + | [x-th f(s, yn(s))ds]
             水井台水台水台的 , 1ymm - 加川 台口
               \gamma_{0} + \frac{1}{h} = \chi \leq \chi_{0} + \frac{3}{h} = 0, |y_{m}(x) - y_{n}(y)| \leq q_{2} + L \int_{\chi_{0} + h}^{\chi_{0} + h} |y_{m}(s) - y_{m}(s)| ds
\leq q_{1} + \frac{1}{h} q_{1} = (1 + \frac{1}{h}) q_{1}
                Yoth (x = x6+ 时, | ymix)-ynix) = apt L fx6+ 計 | ym(s)-yn(s) | ds
          => \( \mathrm{/y_n(x)} \) \( \left( 1+\frac{1}{h} \right)^n \) \( \left( 1+\frac{1}{h} \right)^n \) \( \left( 2+\frac{1}{h} \right)^n \) \( \left( 1+\frac{1}{h} \right)^n \) \( \left( 1+\frac{1}{h
                    取队倒加加州, 吸红 极为对于 对的. 井.
(1)i221n. 345% b.l., la,... la
            部不归: y=0, 05x55
                           というがないがったっち)、計らてと前
     我们知值 1776时, 2(=)=\int_{0}^{1}e^{-\frac{1}{2}}ds=\int_{0}^{1}e^{-\frac{1}{2}}ds+\int_{0}^{1}e^{-\frac{1}{2}}ds
             三方ett 十方e-年 三方. 一种 一种 三元
              的一个,一个的一个的一个一个一个一个一个一个一个
             13: y= = +2(x-2), 2 < x < 3
            和7,2,证本人生产的,中们为一人(人)
                  か(片) コム(片) 井以とだり、 スハイ)=e-た
                                    名部的 p- (部) C k 即有 $11×70×150, X C kH.
```