$\frac{1}{2} = xy = 24 \text{ (in)}$   $\frac{1}{2} = xy = 24 \text{ (in)}$   $\frac{1}{2} = xy = 24 \text{ (in)}$ 

 $\frac{1}{y} = xy = 24 \quad \text{(i)} \quad \text{ind: paper.}$   $\frac{1}{y} = (y+2)(x+3) \quad \text{(2)}$   $\text{(1 -> y = \frac{24}{x} \ 3)}$ 

 $(2) + \frac{24}{x} + 2)(x+3)$   $= 24 + \frac{72}{x} + 2x + 6$   $+ (4) = 2x + \frac{72}{x} + 30$ 

 $\frac{dA}{dx} = 2 - \frac{72}{x^2} = 0$ 

 $\frac{72}{x^2} = 2 \Rightarrow x^2 = 36$  (N: X = 6)

x=6 -> 3 -> 7=4

Jumension: X+3=9 y+2=6

9x6 in

1 2 och 4=1-11-1 1 = 1 + 2 1: 1 9- yr 1+3) 1-7/19-27-5-27 リンス イソースノー・トタ、ここ -y = 2y +2 = C \$ 30 1, -X 16) = 11 9+27-1-3 - 332 mit 3"

$$\frac{1}{2} = 0, \quad \frac{1}{2} = 0, \quad \frac{1$$

$$\frac{1 - \cos x}{3 \times 3} = \frac{0}{0}$$

$$\frac{1 - \cos x}{3 \times 3} = \frac{0}{0}$$

$$= \lim_{X \to 0} \frac{\sin x}{6 \times 2} = \frac{0}{0}$$

$$= \lim_{X \to 0} \frac{\cos x}{6}$$

$$= \frac{1}{6}$$

$$\lim_{X \to 0} \frac{1 - \cos x}{x + x^2} = \frac{0}{0}$$

$$= \lim_{X \to 0} \frac{\sin x}{1 + 2x}$$

$$= \frac{0}{1}$$

$$= 0$$

$$\lim_{x \to 0} \frac{\sin x}{x^2} = \frac{0}{0}$$

$$= \lim_{x \to 0} \frac{\cos x}{2x}$$

$$= \frac{1}{0}$$

$$= \infty$$

$$\lim_{X \to \overline{X}} \frac{\sec X}{1 + \tan X} = \frac{1}{\infty}$$

$$= \lim_{X \to \overline{X}} \frac{\operatorname{rec} X \tan X}{\operatorname{rec} X}$$

$$= \lim_{X \to \overline{X}} \frac{\tan X}{\operatorname{rec} X} = \lim_{X \to \overline{X}} \frac{\sin X}{\operatorname{con} X} (\cos X)$$

$$= \lim_{X \to \overline{X}} \frac{\sin X}{\operatorname{con} X} = \lim_{X \to \overline{X}} \frac{1}{\operatorname{con} X}$$

$$= \lim_{X \to \overline{X}} \frac{1}{\operatorname{con}} = \lim_{X \to \overline{X}} = \lim_{X \to \overline{X}} \frac{1}{\operatorname{con}} = \lim_{X \to \overline{X}} = \lim_{X \to \overline{$$

J. 00 2

$$\lim_{x\to\infty} (x \leq m \frac{1}{x}) = \infty.0$$

$$\lim_{x\to\infty} \frac{\sin(1/x)}{x} \qquad \lim_{x\to\infty} \frac{1}{x} \to 0$$

$$\lim_{x\to\infty} \frac{\sinh (1/x)}{h} \qquad \lim_{x\to\infty} \frac{1}{h} = 1$$

$$\lim_{x\to\infty} \frac{\sin(1/x)}{h} = 1$$

$$\lim_{x\to\infty} \frac{\sin(1/x)}{h} = 1$$

lim Vx lux = 0. (-0)

$$= \lim_{X \to 0^{+}} \frac{\ln x}{\sqrt{x}} = \frac{30}{30}$$

$$= \lim_{X \to 0^{+}} \frac{1}{\sqrt{x}} = \frac{3}{30}$$

$$= \lim_{X \to 0^{+}} \frac{2x^{3/2}}{x}$$

$$= \lim_{X \to 0^{+}} \frac{2x^{3/2}}{x}$$

$$= 2 \lim_{X \to 0^{+}} x^{1/2}$$

$$= 2 \lim_{X \to 0^{+}} x^{1/2}$$

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$$\lim_{x \to 0} \left( \frac{1}{\sin x} - \frac{1}{x} \right) = x - x$$

$$=\lim_{x\to 0^+} \frac{\overline{x+1}}{|x+1|}$$

$$=\lim_{x\to 0^+} \frac{1}{|x+1|}$$

$$=\lim_{x\to 0^+} (1+x)^{1/x} = e^{\frac{1}{x}} = e^{\frac{1}{x}}$$

$$\lim_{x \to \infty} x^{1/4} = \infty^{0}$$

$$\lim_{x \to \infty} \ln x^{1/4} = \lim_{x \to \infty} \frac{\ln x}{x} = \frac{20}{20}$$

$$\lim_{x \to \infty} x^{1/4} = \lim_{x \to \infty} \frac{1}{x}$$

$$\lim_{x \to \infty} x^{1/4} = \lim_{x \to \infty} x^{1/4} = \lim_{x \to \infty} x^{1/4} = \lim_{x \to \infty} \frac{\ln (x + \alpha)}{x} = \lim_{x \to \infty} \frac{$$

11-116. (im (e5x x) x = 100  $\lim_{x\to 0} \ln\left(e^{5x} + x\right)^{1/x} = \lim_{x\to 0} \frac{\ln\left(e^{5x} + x\right)}{x} = 0$ 1 = lim 5-65x -1 = 5+1 (cm (e5x) /x = e6/ # 112 lim ln (tand) = ln (s) = lim cood la (tano) lum lu (tomo) = lim \_ seco bano secol = 20 0 5 II - CUSO 5120

 $=\lim_{x\to\infty}\frac{-\frac{1}{\sqrt{x^2}}e^{x}}{-\frac{1}{\sqrt{x^2}}\cos\frac{1}{\sqrt{x^2}}}$   $=\lim_{x\to\infty}\frac{-\frac{1}{\sqrt{x^2}}e^{x}}{-\frac{1}{\sqrt{x^2}}\cos\frac{1}{\sqrt{x^2}}}$   $=\lim_{x\to\infty}\frac{e^{x}}{\cos\frac{1}{\sqrt{x^2}}}$   $=\frac{1}{\sqrt{x^2}}$   $=\frac{1}{\sqrt{x^2}}$   $=\frac{1}{\sqrt{x^2}}$   $=\frac{1}{\sqrt{x^2}}$   $=\frac{1}{\sqrt{x^2}}$   $=\frac{1}{\sqrt{x^2}}$   $=\frac{1}{\sqrt{x^2}}$   $=\frac{1}{\sqrt{x^2}}$ 

$$f(x) = \frac{1}{2\pi} \left[ \frac{1}{x_{-1}} \right]$$

$$J = J_0 + \frac{1}{2}(x - x_0)$$

$$L = (1 + \frac{1}{2}(x - x_0)) = \frac{1}{2}x + \frac{1}{2}$$

$$L(x) = \frac{3}{2} + \frac{1}{2}$$

$$= 2$$

$$= 3$$

$$= 3$$

$$= 3 \approx 1.7$$