lim
$$4\cos y \sin x^{2} = 4\cos x \sin \sqrt{\frac{\pi^{2}}{4}}$$

$$(x_{1},z) \rightarrow (\frac{\pi}{2},0\frac{\pi}{2})$$

$$= 4$$

$$2.3 +10$$

$$f(x_{1}y) = e^{xy} \ln y$$

$$f_{x} = y e^{xy} \ln y$$

$$f_{y} = xe^{xy} \ln y + e^{xy} \int_{z} e^{xy} \ln y + e^{xy} \ln y + e^{xy} \int_{z} e^{xy} \ln y + e^{xy} \ln y + e^{xy} \int_{z} e^{xy} \ln y + e^{xy} \ln$$

-: The feta satisfies Laplace cgn.

#6
$$W = Xe^{3} + y \sin 2 - \cos^{2} + y \sin 2 - \cos^{2} + y \sin 2 - \cot 2 = \pi t$$

$$X = 2VT' e^{t-1+lut} + (t-1+lut) \sin \pi t - \cos \pi t$$

$$dw = W' = (\frac{1}{Vt} + 2VT'(1+\frac{1}{t})) e^{t-1+lut}$$

$$+ (1+\frac{1}{t})^{t+\pi} (t-1+lut) \cos \pi t$$

$$+ (\pi \sin \pi t) \cdot (\pi + \pi t)^{t+\pi} (t-1+lut) \cos \pi t$$

$$+ (\pi (t-1)^{t} + lut) \cos \pi t$$

$$+ \pi (t-1)^{t} + lut) \cos \pi t$$

$$W' = 5$$

$$A = \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} + \frac{1}{2} \right) \left(\frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} \right) \left(\frac{1}{2} + \frac$$

$$\frac{431}{\sqrt{3x}} = -\frac{f_x}{F_y}$$

$$= -\frac{2xy}{x^2 + y^2 + 4} \cdot \frac{1}{\ln(x^2 + y^2 + 4) + \frac{2y^2}{x^2 + y^2 + 4}}$$

$$= \frac{-2xy}{(x^2 + y^2 + 4)\ln(x^2 + y^2 + 4) + 2y^2}$$

$$\frac{2}{\sqrt{3}} = e^{x+y} = e^{x+y} + (y+1) \sin x$$

$$(0,0,\frac{\pi}{6})$$

$$7 = \int_{x} \hat{i} + \int_{y} \hat{j} + \int_{z} \hat{k}$$

$$= (e^{x+y} + \frac{j+1}{1-x^{2}})\hat{i}$$

$$+ (e^{x+y} + \cos x + \sin x)\hat{j}$$

$$- e^{x+y} \sin x \hat{k}$$

$$= (\cos x + 1)\hat{i} + (\cos x + \sin x)\hat{j} - \sin x \hat{k}$$

$$= (\sqrt{3} + 1)\hat{i} + (\sqrt{3})\hat{j} - \sin x \hat{k}$$

$$\frac{1}{\sqrt{(x,y)}} = \sqrt{56x^2 - 8y^2 - 16x - 31} + 1 - 8x$$

$$\frac{1}{\sqrt{x^2 - 8y^2 - 16x - 31}} - 8 = 0$$

$$\frac{1}{\sqrt{x^2 - 8y^2 - 16x - 31}} = 0 \Rightarrow y = 0$$

$$\frac{1}{\sqrt{x^2 - 8y^2 - 16x - 31}} = 0 \Rightarrow y = 0$$

$$\frac{1}{\sqrt{x^2 - 8y^2 - 16x - 31}} = 0 \Rightarrow y = 0$$

$$\frac{1}{\sqrt{x^2 - 8y^2 - 16x - 31}} = 0 \Rightarrow y = 0$$

$$\frac{1}{\sqrt{x^2 - 10x + 1}} = \frac{1}{\sqrt{x^2 - 8y^2 - 16x - 31}} = 0$$

$$\frac{1}{\sqrt{x^2 - 2x - 32}} = 0 \Rightarrow (x + 2)(\frac{1}{\sqrt{x^2 - 16x}}) = 0$$

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$$\frac{1}{\sqrt{x^2 - 2x^2 - 3x^2 - 3x^2$$

$$f(x,y) = x^{2} + y^{3} - 3xy + 15$$

$$f_{x} = 3x^{2} - 3y = 0 \implies y = x^{2} 0$$

$$f_{y} = 3y^{2} - 3x = 0 \implies x = y^{2} 0$$

$$f_{y} = (y^{3})^{2} = y^{4}$$

$$f_{y} = (y^{3})^{2} = y^{4}$$

$$f_{y} = (y^{3})^{2} = 0 \implies y = 0, 1$$

$$f_{x} = 0 \implies x = 0$$

$$f_{y} = 0 \implies x = 1$$

$$f_{x} = 6x \qquad f_{y} = 6y \qquad f_{xy} = -3$$

$$f_{xx} = 6x \qquad f_{y} = 6y \qquad f_{xy} = -3$$

$$f_{xx} = 6x \qquad f_{y} = 6y \qquad f_{xy} = -3$$

$$f_{xx} = 6x \qquad f_{y} = 6y \qquad f_{xy} = -3$$

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$$f_{xx} = 6x \qquad f_{xy} = 6y \qquad f_{xy} = -3$$

$$f_{xx} = 6x \qquad f_{xy} = -3$$

$$f_{xy} = 6x \qquad f_{xy} = -3$$

$$f_{xx} = 6x$$

$$\frac{2.5}{437} \quad f(x_{17,2}) = x \qquad g(x_{17,2}) = x^{2}y^{2}+x^{2}-2-1=0$$

$$\frac{2}{37} = \frac{2}{37} = \frac{2}{37} + \frac{2}{37} + \frac{2}{37} + \frac{2}{37} = 0$$

$$\frac{2}{37} = \frac{2}{37} =$$