2) Haith noughoftere 1-20 hopingue 2 = (1 + lux) = 1 + 3 lux + 3 lux) (0 1) 3 (3lu 4X) + (lu 3X) 3ly x 3 lux + 2lux+ Glux  $3\ln X = 0. \ln X + 3. X = (3)$   $\ln X = 0. \ln X + 3. X = (X)$   $\ln X = 0. \ln X + 3. 2 \ln X = (6 \ln X)$ 3 lu X = 0. lu X + 3. Lu X = (6 lu X) (lu X. lu X) = \frac{1}{x} \lu x + lu x \cdot x = \frac{1}{x} \lu x \frac{1}{x} \

$$\frac{3\ln x \cdot y}{\ln^2 y} = \frac{3\ln^2 y}{3\ln^2 y}$$

$$\frac{1}{\ln^2 y} = \frac{1}{\ln^2 y}$$

$$\frac{1}{\ln^2 y} = \frac{3\ln^2 y}{2}$$

$$\frac{1}{\ln^2 y} = \frac{3\ln^2$$

A llocation the the skethengy ap- 10 2 = X + xy + y 2 - Gx - gy dx = dx + y = -6 = 02X+4= X + 24 = 9 X+2/6-2x)=9 = 6-2x X+12-4x -9 3 = 3x X = 1 Uxx Uxy = /2 Ugx Ugy 1 (4 2)  $\Delta_1 = 2 > 0$ ,  $\Delta_2 = 4 - 4 = 0 (= 0)$