$$K = \frac{1-y}{1-y-x} \qquad \text{---------- (1)}$$

differentiate by y

$$\frac{dK}{dy} = \frac{(-1)\cdot(1-y-x) - (1-y)\cdot(-1)}{(1-y-x)^2}$$

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

$$\frac{dK}{dy} = \frac{y+x-1-y+1}{1+y^2+x^2+2xy-2x-2y} = \frac{x}{-11}$$

$$\frac{dK}{dy} = \frac{x}{x\left(\frac{1}{x}+\frac{y^2}{x}+x+2y-2-\frac{2y}{x}\right)} \qquad \text{---- (2)}$$

differentiate (1) by x

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

$$\frac{dK}{dx} = \frac{1-y}{1+y^2+x^2+2xy-2x-2y} \qquad \text{---------- (3)}$$