$$\lim_{(x,y)\to(0,1)} \frac{x-xy+3}{x^2y+5-xy-y^2} = \frac{0-0+2}{0+0-1} = -3$$

$$\lim_{(x,y)\to(0,1)} \frac{x^2y+5-xy-y^2}{x^2-y^2} = \frac{9+16}{0}$$

$$\lim_{(x,y)\to(0,0)} \frac{x^2-xy}{\sqrt{x^2-y^2}} = \frac{0}{0}$$

$$\lim_{(x,y)\to(0,0)} \frac{x(x-y)}{\sqrt{x^2-y^2}} \cdot \frac{\sqrt{x^2+y^2}}{\sqrt{x^2-y^2}}$$

$$\lim_{(x,y)\to(0,0)} \frac{x(x-y)}{(x-y)} \cdot \frac{(x^2+y^2)}{(x^2-y^2)}$$

$$\lim_{(x,y)\to(0,0)} \frac{x(x-y)}{(x-y)} \cdot \frac{(x^2+y^2)}{(x^2-y^2)}$$

$$\lim_{(x,y)\to(0,0)} \frac{3x^2-y^2+5}{x^2+y^2+2} = \frac{5}{2}$$

$$\lim_{(x,y)\to(0,0)} \frac{3x^2-y^2+5}{x^2+y^2+2} = \frac{5}{2}$$

$$\lim_{(x,y)\to(0,0)} \frac{x^2+y^2}{x^2+y^2+2} = \frac{1}{2} \ln \sqrt{4+9+36}$$

$$\lim_{(x,y)\to(0,0)} \ln \sqrt{x^2+y^2+2^2} = \ln \sqrt{4+9+36}$$

$$\lim_{(x,y)\to(u,3)} \frac{|x'-\sqrt{y+1}|}{|x-y-1|} = \frac{2-2}{4-3-1} = \frac{0}{0}$$

$$\lim_{(x,y)\to(u,3)} \frac{|x'-\sqrt{y+1}|}{|x-y-1|} \cdot \frac{|x'+\sqrt{y+1}|}{|x'+\sqrt{y+1}|}$$

$$= \lim_{(x,y)\to(u,3)} \frac{|x-y-1|}{|x-y-1|} \cdot \frac{|x'+\sqrt{y+1}|}{|x'+\sqrt{y+1}|}$$

$$= \lim_{(x,y)\to(u,3)} \frac{|x-y-1|}{|x-y-1|} \cdot \frac{|x'+\sqrt{y+1}|}{|x'+\sqrt{y+1}|}$$

$$= \lim_{(x,y)\to(u,3)} \frac{|x-y-1|}{|x'+\sqrt{y+1}|}$$

$$= \lim_{(x,y)\to(u,3)} \frac{|x'+y|^2}{|x'+y|^2} = \frac{0}{0}$$

$$\lim_{(x,y)\to(0,0)} \frac{|x^2+y|^2}{|x^2+y|^2} = \lim_{(x,y)\to(0,0)} \frac{|x|x^2}{|x^2+y|^2} = 0$$

$$\lim_{(x,y)\to(0,0)} \frac{|x|^2}{|x^2+y|^2} = \lim_{(x,y)\to(0,0)} \frac{|x|x^2}{|x^2+y|^2} = 0$$

$$\lim_{(x,y)\to(0,0)} \frac{|x|^2}{|x^2+y|^2} = \lim_{(x,y)\to(0,0)} \frac{|x|x^2}{|x^2+y|^2} = 0$$

lim $(x,y) \rightarrow (0,0)$ y = -xL'm Sin xy (x,y)→(0N) X2+,y2