Let 
$$y=X$$
, then  $\lim_{(X,Y)\to(0,0)} \frac{XY}{|XY|} = \lim_{X\to 0} \frac{X^2}{|X^2|} = 1$ 

Let 
$$y=-x$$
, then  $\lim_{(X,y)\to(0,0)} \frac{xy}{|xy|} = \lim_{x\to 0} \frac{-x^2}{|-x^2|} = -1$ 

$$f(1,4) = \frac{1}{1-\frac{1}{4}} = \frac{4}{3}$$

So level curve is 
$$\frac{+\infty}{2}(\frac{x}{y})^n = \frac{4}{3}$$