Aula 14 - 16.2/6

Daniel Cimarim Vilela de Salis - 123.145

- $f(x,y) = x^5 + y^5 - 5x - 5y$

- $\frac{\partial f}{\partial x} = 5x^4 - 5 = 0$

$$5(x^4 - 1) = 0$$

$$x^4 - 1 = 0$$

$$x^4 = 1$$

$$x = \pm 1$$

- $\frac{\partial f}{\partial y} = 5y^4 - 5 = 0$

$$5(y^4 - 1) = 0$$

$$y^4 - 1 = 0$$

$$y^4 = 1$$

$$y = \pm 1$$

- Candidatos locais:

$(1,1)$ ; $(1,-1)$ ; $(-1,1)$ ; $(-1,-1)$