

$$\frac{\partial g}{\partial x} = \dots$$

$$\frac{\partial g}{\partial y} = \dots$$

}

a critical pt.  
 $(a, b)$  is one a sol.  
 of this simultaneous  
 pair of equations

i.e.  $\frac{\partial g}{\partial x}(a, b) = 0$

$$\frac{\partial g}{\partial y}(a, b) = 0.$$

Let's take  $\frac{\partial g}{\partial x} = 0$  first.

Solve this

→ conditions on  $x, y$   
 that make  $\frac{\partial g}{\partial x} = 0$ .

Take each condition and impose it on

$\frac{\partial g}{\partial y} = 0$  and then solve this.

and then put conditions  
 together.











