Show all your work to get credit!

1. Find an equation of the tangent plane to the surface

$$z = x\sin(x+y)$$

at the point (-1,1,0).

## Reading Question:

True or False: If f(x,y) is a continuous function near (a,b) and if  $f_x(a,b)=0$  and  $f_y(a,b)=0$ , then f has a local minimum or maximum at (a,b). Explain briefly.