$$\int_{x} (-2,1) = 5 \quad \text{and} \quad g_{y}(-2,1) = -6$$

$$g_{x}(x,y) = \int_{x} (x^{2}-y^{2}, 1xy) \cdot 1x + \int_{y} (x^{2}-y^{2}, 1xy) \cdot 2y$$

$$g_{y}(x,y) = \int_{x} (x^{2}-y^{2}, 1xy) \cdot (-2y) + \int_{y} (x^{2}-y^{2}, 1xy) \cdot 1x$$

$$\int_{y} (x,y) = \int_{x} (x^{2}-y^{2}, 1xy) \cdot (-2y) + \int_{y} (x^{2}-y^{2}, 1xy) \cdot 1x$$

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An equation for the tangent plane to the graph of 
$$t=f(x_{1}y)$$
  
at the point  $(3,-4,7)$  is:  
$$t=-\frac{2}{5}\cdot(x-3)+\frac{17}{10}\cdot(y-(-4))+7$$