Question #16187

The gradient of a function f(x,y)=y-xy+2px+3qy is $\nabla=(-y+2p;1-x+3q)$. Given, that it is equal to (-2;3) at point x=3,y=2, obtain -2+2p=-2;3q-2=3, which gives $p=0,q=\frac{5}{3}$.