$\mathbf{MATB41} \ \mathbf{WEEK} \ \mathbf{5} \ \mathbf{QUIZ} \ \mathbf{1} \ \mathbf{LEC02}$

Question 1

Let $f(x,y) = 3y^2 - 2x^2 + 2x$.

Find the maximum and minimum of f(x,y) on the circle $x^2 + y^2 = 1$. (You only need to find all the possible points.)

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