## MATH 251 - QUIZ 5

## Question 1: (5 points)

Find the equation of the tangent plane to the following surface at the point (2, 2, - $)$ :

$$
(x+y+z)^{2}=x^{2}+y^{2}+z^{2}
$$

Question 2: (5 points)
Find the points at which the following function attains a local maximum, minimum, or saddle

$$
f(x, y)=x^{4}-2 x^{2}+y^{3}-3 y
$$

Note: You do not have to calculate the values of $f$ at the points

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[^0]:    Date: Friday, October 8, 2021.

