

Instructions. Show all work, with clear logical steps. No work or hard-to-follow work will lose points.

Problem 1. (7 points) Find and classify all critical points of the function

$$f(x, y) = 54x^4 + 64x + \frac{16}{3}y^3 - y + 2.$$

Problem 2. (3 points) When is our next exam?