

Subject: Session 28

Year. Month. Date. ( )

$$1 \quad f(x, y) = x^6 + y^3 + 6x - 12y + 7$$

$$f_x = 6x^5 + 1 + 6 - 1 + 0$$

$$f_y = 0 + 3y^2 + 0 - 12 + 0$$

$$6x^5 + 6 = 0 \Rightarrow x = -1$$

$$3y^2 - 12 = 0 \Rightarrow y = \sqrt{\frac{12}{3}} \pm 2$$

~~$$f_{xx} = 30x^4 = 30$$~~

$$(-1, -2)$$

$$(-1, 2)$$

~~$$f_{yy} = 6y = 12$$~~