

Subject: Session 28
Year. Month. Date. ()

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

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

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

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

$$3y^2 - 12 = 0 \Rightarrow y = \sqrt{4} \pm 2$$

~~f_{xy}~~

(-1, -2)

(-1, 2)

~~$\pm \frac{10\sqrt{10}}{3}, 2\sqrt{12}\sqrt{\frac{10}{3}} + 7$~~