Quiz 7-M4271 Cheat method Abdon M. am 2267B $e^{+} = 1 + t + \frac{t^{2}}{2} + \frac{t^{3}}{2} + \dots$ July 9th 2025 $2\left(1-\frac{x^2}{2}\right)$ $(os(t) = 1 - \frac{t^2}{2} + \frac{t^4}{41} + ...$ $SIN(+) = t - \frac{+3}{3!} + \frac{+5}{5!} + \cdots$ 1). $f(x,y) = (e^{x^2+2y}, x-xy^2+2\cos(x), 1-x\sin(x+y))$ near the origin P= (0,0) $F = (1+2y+x^2+2y^2, 2+x, -x^3)-x^2-xy$

deg(3) approximation

$$F = \left[(1 + 2y + x^2 + 2y^2 + 2x^2y + \frac{4}{3}y^3, 2 + x - x^2 - xy^2, 1 - x^2 - xy) \right]$$

$$Aeg(3)$$