1.) $f(x) = \frac{1}{x^2+y^3 \cdot 2x}$ $\quad F_y = \frac{1}{x^2+y^3 \cdot 3y^2}$

$F_x = \frac{2x}{x^2+y^3}$ $\quad F_y = \frac{3y^2}{x^2+y^3}$

2.) $4 = 1+1+2$

$F_x = \frac{dz}{dx} = 2x+0+0$ $\quad F_y = \frac{dz}{dy} = 0+2y+0$

$z' = 2$ $\quad z' = 2$

line tangent $\Rightarrow z-4 = 2(x-1)+2(y-1)$

$z-4 = 2x-2+2y-2$

$z = 2x+2y-4+4$

$z = 2x+2y$

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97 Elyas Sazar.pdf