HW 5 ESM

① $f(x, y, z) = \cos^2(xy) + e^{-z} + y^4 z^2$

$f_x = -2y \sin(xy) \cos(xy)$

$f_y = -2x \sin(xy) \cos(xy) + 4y^3 z^2$

$f_z = -e^{-z} + 2y^4 z$

$f_{zy} = 8y^3 z$

$f_{xx} = -2y^2 \cos(2xy)$

③ 1. Github is open-access (democratizes science).
2. You can compare iterations of code side by side.
3. It's an easy way to showcase your abilities to employers.