

1. Write a MATLAB code to find the value of  $\int_0^1 \int_0^x \int_0^y xyz \, dz \, dy \, dx$  and execute it. Also visualize it.
2. Write a MATLAB code draw the three dimensional vector field for the vector  $x^2 \vec{i} - y^2 \vec{j} + z^2 \vec{k}$ .