1. Find the equation of the line in \( \mathbb{R}^2 \) that best fits the points 

\[(0, 0), \ (1, 1), \ (2, 4), \ (3, 9)\]

in the least-squares sense.

2. Find the equation of the plane in \( \mathbb{R}^3 \) that best fits the points 

\[(0, 0, 0), \ (1, 0, 0), \ (0, 1, 0), \ (0, 0, 1)\]

in the least-squares sense.