Problem 1

Do the first 8 problems in section 15.1 of your book. It should be matching images of curves to their parameterizations.

Problem 2

Integrate $f(x,y,z) = x + \sqrt{y} - z^2$ over the path from (0,0,0) to (1,1,1) given by the two curves

$$C_1: \quad r(t) = t\mathbf{i} + t^2\mathbf{j}, \quad 0 \le t \le 1$$

$$C_2: \quad r(t) = \mathbf{i} + \mathbf{j} + t\mathbf{k}, \quad 0 \le t \le 1.$$