"QUIZ" for Lecture 1

NAME: (print!)	Section:
E-MAIL ADDRESS: (print!)	

1. Show that the triangle with vertices P = (1, 0, 0), Q = (0, 1, 0), and R = (0, 0, 1) is an equilateral triangle.

2. Determine whether the following two lines ever meet. If they do meet, where?

$$\mathbf{r}_1(t) = \langle 1, 0, 0 \rangle + t \langle 1, 2, 3 \rangle \quad , \quad \mathbf{r}_2(t) = \langle 0, 1, 0 \rangle + t \langle 2, 1, 3 \rangle \quad .$$