

NAME:

PID:

MATH 20C, SECTION A05

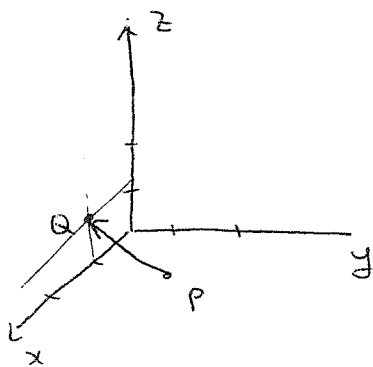
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Quiz 1

Show all your work for full credit. To maximize credit, cross out incorrect work.

No credit will be given for unsupported answers.

1. (10 points) Find a vector parametrization $\vec{r}(t)$ for the line through $P = (1, 1, 0)$ and $Q = (1, 0, 1)$.



$$\vec{PQ} = \langle 0, -1, 1 \rangle$$

$$\vec{r}(t) = \vec{OP} + t\vec{PQ} \quad (\text{Eqn. for vector parametrization})$$

$$\vec{r}(t) = \langle 1, 1, 0 \rangle + t\langle 0, -1, 1 \rangle$$

Good luck! ☺