

Due **Tuesday** April 17 (Tax Day), at the start of the recitation.

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1. Find the equation of the plane such that every point on the plane is equidistant from the points $P(1, 1, 0)$ and $Q(3, 5, -2)$.
HINT: The midpoint of \overline{PQ} is in this plane. Now find a normal vector. Recall that we found in class the equation of plane of all points equidistant from $(0, 0, 0)$ and $(0, 3, 0)$.