Math	222	_	Quiz	10
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Problem 1 Show that if \vec{a} and \vec{b} are perpendicular, then $\|\vec{a} + 2\vec{b}\|^2 = \|\vec{a}\|^2 + 4\|\vec{b}\|^2$.

Problem 2 Find an an equation for the line between the points P = (1, 0, -2) and Q = (2, 1, 0). Then find where this line intersects the coordinate planes (that is, the x-y, y-z, and x-z planes).