QUIZ 5 - MATH 251 Friday, February 23

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Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Find an equation of the plane that is parallel to the plane with equation $7x - 3y + z = 10$ and passes through the point $(1, 1, 0)$.

2. Find a vector or parametric equation(s) of the line that is perpendicular to the plane with equation $2x - y - z = 2018$ and passes through the point $(-1, 7, 10)$.

3. Find an equation of the plane containing the points $P = (1, -1, 0)$, $Q = (0, -2, 5)$ and $R = (1, 1, 1)$.

4. Find an equation for the intersection of the planes with equations $2x - y = 3$ and $x + y + z = 5$.