Challenge Set #2

- 1. Find two planes π_1 and π_2 so that the line of intersection is $\ell: (x, y, z) = (-1, 2, 2) + t(1, -2, 5)$. Justify your solution.
- 2. Find the reflection of the point P(3,5,-1) in the mirror defined by x 2y + 3z 2 = 0.
- 3. Find the reflection of the point P(-2,1,-5) in the line defined by ℓ : (x, y, z) = (-1,2,2) + t(1,-2,5).
- 4. On the last test, I had to ensure that the pair of lines given were either intersecting or skew. How was I able to use planes to achieve this?

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