Math 241: Quiz 4

Show ALL Work

Name

1. The plane \mathcal{P} given by 7x - 4y + 4z = -3 and the line ℓ given by x = t + 3, y = 2t + 10 and z = -t - 1 intersect at a point A. Calculate the point A.

Point of Intersection A:	(simplify)
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2. Let \mathcal{P} and A be as in the previous problem. Calculate a point B which is a distance 18 from A and a distance 18 from plane \mathcal{P} . (Note: There are two correct answers. You only need to give one. Also, if you are using line ℓ , you are likely doing something wrong.)

Point of Intersection *B*:

(simplify)