



Bilkent University

Quiz # 06
Math 102 Section 08 Calculus II
18 March 2024 Monday
Instructor: Ali Sinan Sertöz



Name & Lastname:

Department:

Student ID:

Q-1) Let π be the plane that passes through the points $P_0 = (1, 3, 5)$, $Q_0 = (7, -6, 13)$ and is parallel to the line $\frac{x-1}{2} = \frac{y-3}{4} = \frac{z-5}{11}$. Write the equation of this plane in the form $Ax + By + Cz = D$ where $D \geq 0$.

Q-2) Does the line $\frac{x-7}{127} = \frac{y+6}{31} = \frac{z-13}{-2}$ intersect the above plane π ?

If so find the intersection point. If not explain why. Does this line lie in π ?

Show your work in detail. Correct answers with no justification will not get any credit.

Grading: 8+2=10 points

Solution: (Grader: melis.gezer@bilkent.edu.tr)