



Universidad nacional de ingeniería
Facultada de ingeniería ambiental

Solucionario del Examen Final de Álgebra Lineal

Fecha de evaluación: 05-01-2023

Hora: 8am-10am

1. Sean las rectas

$$L_1: (1, 9, 10) + t(0, 3, 4), t \in \mathbb{R}$$

$$L_2: (-5, -5, 2) + t(3, 4, 0), t \in \mathbb{R}$$

Considere L_3 una recta tal que con las rectas L_1 y L_2 forman un triángulo isósceles con lados congruentes sobre L_1 y L_2 . Por el punto de intersección de L_1 y L_2 pasan dos rectas \mathcal{L}_1 y \mathcal{L}_2 que trisecan el lado no congruente del triángulo isósceles mencionado anteriormente. Determine los puntos de intersección de las rectas \mathcal{L}_1 y \mathcal{L}_2 con la recta

$$L: (22, 73, 58) + t(3, -8, -16), t \in \mathbb{R}$$

(5pts)

Solución

El punto de intersección de las rectas L_1 y L_2 es $P(1, 3, 2)$. Como los vectores direcciones $v_1 = (0, 3, 4)$ y $v_2 = (3, 4, 0)$ de las rectas L_1 y L_2 , respectivamente, tienen la misma norma, entonces los vectores direcciones de las rectas \mathcal{L}_1 y \mathcal{L}_2 son

$$u_1 = \frac{1}{3}(2v_1 + v_2) = \frac{1}{3}(3, 10, 8) \quad \text{y} \quad u_2 = \frac{1}{3}(v_1 + 2v_2) = \frac{1}{3}(6, 11, 4)$$

respectivamente. Entonces

$$\mathcal{L}_1: (1, 3, 2) + t(3, 10, 8)$$

$$\mathcal{L}_2: (1, 3, 2) + t(6, 11, 4)$$

Luego, los puntos de intersección de \mathcal{L}_1 y \mathcal{L}_2 con la recta L son $A(10, 33, 26)$ y $B(13, 25, 10)$.

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Hussin A.Rothana



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