



NOMBRE: JOSE MIGUEL GARCIA DOMINGUEZ

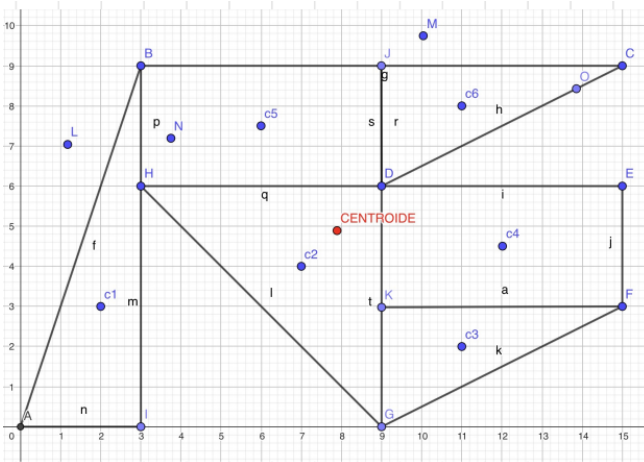
DOCENTE: ABEL ESTRADA DICHI

NOMBRE DEL TRABAJO: CENTROIDES

MATERIA: ESTÁTICA PARA LA ARQUITECTURA

GRADO: 3°

GRUPO: ARQUITECTURA



$$C = (7.89, 4.89)$$

$$A_1 = \frac{B \times h}{2} \quad C_1 = (2, 3)$$

$$A_1 = \frac{3 \times 9}{2} = 13.5 \text{ u}^2$$

$$A_2 = \frac{B \times h}{2} \quad C_2 = (7, 4)$$

$$A_2 = \frac{6 \times 6}{2} = 18 \text{ u}^2$$

$$A_3 = \frac{B \times h}{2} \quad C_3 = (11, 2)$$

$$A_3 = \frac{6 \times 3}{2} = 9 \text{ u}^2$$

$$A_4 = B \times h \quad C_4 = (12, 4.5)$$

$$A_4 = 6 \times 3 = 18 \text{ u}^2$$

$$A_5 = B \times h \quad C_5 = (6, 7.5)$$

$$A_5 = 6 \times 3 = 18 \text{ u}^2$$

$$A_6 = \frac{B \times h}{2} \quad C_6 = (11, 8)$$

$$A_6 = \frac{6 \times 3}{2} = 9 \text{ u}^2$$

$$X_c = \frac{A_1 X_1 + A_2 X_2 + A_3 X_3 + A_4 X_4 + A_5 X_5 + A_6 X_6}{A_1 + A_2 + A_3 + A_4 + A_5 + A_6}$$

$$X_c = \frac{(13.5 \times 2) + (18 \times 7) + (9 \times 11) + (18 \times 12) + (18 \times 6) + (9 \times 11)}{13.5 + 18 + 9 + 18 + 18 + 9}$$

$$X_c = 7.89$$

$$Y_c = \frac{(13.5 \times 3) + (18 \times 4) + (9 \times 2) + (18 \times 4.5) + (18 \times 7.5) + (9 \times 8)}{13.5 + 18 + 9 + 18 + 18 + 9}$$

$$Y_c = 4.89$$