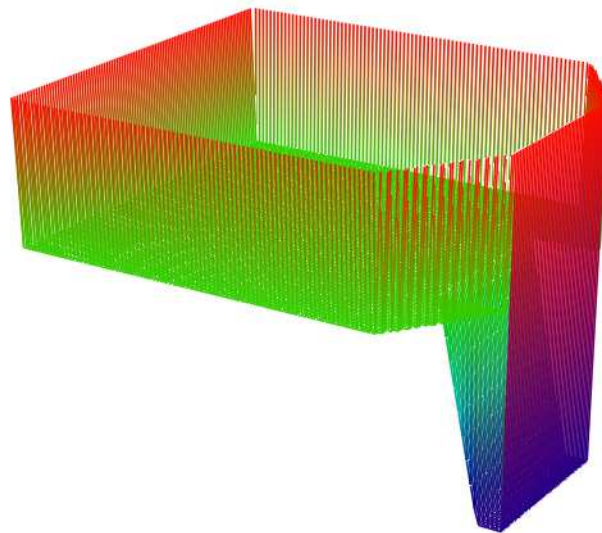


$$f_1(x, y) := 0.0\text{m}$$

$$f_2(x, y) := \begin{cases} -3\text{m} & \text{if } 0.0\text{m} \leq x \leq 8.0\text{m} \wedge 0.0\text{m} \leq y \leq 8.1\text{m} \\ -3\text{m} - 4.45\text{m} \frac{(y - 8.1\text{m})}{0.9\text{m}} & \text{if } 2.2\text{m} \leq x \leq 5.8\text{m} \wedge 8.1\text{m} \leq y \leq 9.0\text{m} \\ -(3 + 4.45)\text{m} & \text{if } 2.2\text{m} \leq x \leq 5.8\text{m} \wedge 9.0\text{m} \leq y \leq 9.6\text{m} \\ -3\text{m} & \text{if } (0.0\text{m} \leq x \leq 2.2\text{m}) \wedge (8.1\text{m} \leq y \leq 9.6\text{m}) \wedge x \geq \frac{2.2}{1.5}(y - 8.1\text{m}) \\ -3\text{m} & \text{if } (5.8\text{m} \leq x \leq 8.0\text{m}) \wedge (8.1\text{m} \leq y \leq 9.6\text{m}) \wedge x - 5.8\text{m} \leq -\frac{2.2}{1.5}(y - 9.6\text{m}) \\ 0.0\text{m} & \text{otherwise} \end{cases}$$



$$f_1, f_2$$

$$z(x, y) := f_1(x, y) - f_2(x, y)$$

$$\text{Volume} := \int_0^{10\text{m}} \int_0^{10\text{m}} z(x, y) \, dx \, dy$$

$$\text{Volume} = 237.325 \cdot \text{m}^3$$

$$X_{\text{CoG}} := \int_0^{10\text{m}} \int_0^{10\text{m}} \frac{z(x,y) \cdot x}{\text{Volume}} dx dy$$

$$X_{\text{CoG}} = 3999.7 \cdot \text{mm}$$

$$Y_{\text{CoG}} := \int_0^{10\text{m}} \int_0^{10\text{m}} \frac{z(x,y) \cdot y}{\text{Volume}} dx dy$$

$$Y_{\text{CoG}} = 4921.4 \cdot \text{mm}$$

$$Z_{\text{CoG}} := \int_0^{10\text{m}} \int_0^{10\text{m}} \frac{z(x,y) \cdot \frac{z(x,y)}{2}}{\text{Volume}} dx dy$$

$$Z_{\text{CoG}} = 1741.3 \cdot \text{mm}$$