UDS

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MATERIA: RESISTENCIAS DE MATERIALES DE CONSTRUCCIÓN.

NOMBRE DEL TRABAJO: EXAMEN UNIDAD 1.

GRADO: 4°

GRUPO: A.

$D1 = c = \sqrt{a^2 + b^2} = \sqrt{(92.5906)^2 + (160.7107)^2} = \sqrt{25,827.9290 + 8,573.0192} =$

$D1 = \sqrt{34,400.9482} = D1 = \underline{185.4749}$

$D2 = b = \sqrt{c^2 - a^2} = \sqrt{(50^2) - (25)^2} = \sqrt{2,500 - 625} = \sqrt{1,875} =$

$D2 = \underline{43.3012}$

$D3 = Sen(x) = \frac{CO}{H} = \frac{CO}{Sen(x)} = H = \frac{70.7107}{Sen\ (45)} = 99.99 = D3 = \underline{100}$

$D4 = b = \sqrt{c^2 - a^2} = \sqrt{(100)^2 - (70.7107)^2} = \sqrt{10,000 - 5,000.0030} =$

$D4 = \sqrt{4999.997} = D4 = \underline{70.7106}$

$$\alpha^1 = \cos = \frac{CA}{H} = \cos^{-1} = \frac{160.71}{185.45} = \alpha^1 = \underline{30^\circ //}$$

$$\alpha^2 = \cos = \frac{CA}{H} = \cos^{-1} = \frac{25}{50} = \alpha^2 = \underline{60^\circ //}$$