

$$A = (2, \{\})$$

$$\text{symbols} = \{a = \alpha_a, b = \alpha_b, c = \alpha_c, \\ x = \alpha_x, y = \alpha_y, z = \alpha_z\}$$

$$B = (3, \{\alpha_x = 0, \alpha_y = 0, \alpha_z = 0\})$$

true

false

$$C = (4, \{\alpha_a \neq 0, \alpha_x = 0, \\ \alpha_y = 0, \alpha_z = 0\})$$

$$D = (5, \{\alpha_a = 0, \alpha_x = 0, \\ \alpha_y = 0, \alpha_z = 0\})$$

$$E = (5, \{\alpha_a \neq 0, \alpha_x = -2, \\ \alpha_y = 0, \alpha_z = 0\})$$

true

false

true

false

$$F = (6, \{\alpha_a \neq 0, \alpha_b < 5, \\ \alpha_x = -2, \alpha_y = 0, \alpha_z = 0\})$$

$$G = (6, \{\alpha_a = 0, \alpha_b < 5, \\ \alpha_x = 0, \alpha_y = 0, \alpha_z = 0\})$$

$$H = (7, \{\alpha_a \neq 0, \alpha_b < 5, \\ \alpha_x = -2, \alpha_y = 0, \alpha_z = 2\})$$

$$I = (7, \{\alpha_a \neq 0, \alpha_b \geq 5, \\ \alpha_x = -2, \alpha_y = 0, \alpha_z = 0\})$$

$$J = (7, \{\alpha_a = 0, \alpha_b < 5, \\ \alpha_x = 0, \alpha_y = 0, \alpha_z = 2\})$$

true

false

false

false

$$K = (8, \{\alpha_a = 0, \alpha_b < 5, \\ \alpha_x = 0, \alpha_c = 0, \\ \alpha_y = 0, \alpha_z = 2\})$$

$$L = (10, \{\alpha_a \neq 0, \\ \alpha_b < 5, \alpha_x = -2, \\ \alpha_y = 0, \alpha_z = 2\})$$

$$M = (10, \{\alpha_a \neq 0, \\ \alpha_b \geq 5, \alpha_x = -2, \\ \alpha_y = 0, \alpha_z = 0\})$$

$$N = (10, \{\alpha_a = 0, \alpha_b < 5, \\ \alpha_x = 0, \alpha_c = 0, \\ \alpha_y = 1, \alpha_z = 2\})$$

$$O = (10, \{\alpha_a = 0, \\ \alpha_b < 5, \alpha_x = 0, \alpha_c = 0, \\ \alpha_y = 0, \alpha_z = 2\})$$

$$P = (10, \{\alpha_a = 0, \\ \alpha_b \geq 5, \alpha_x = 0, \\ \alpha_y = 0, \alpha_z = 0\})$$

$$\alpha_x + \alpha_y + \alpha_z - 3 \\ = -3 \neq 0$$

safe division

$$\alpha_x + \alpha_y + \alpha_z - 3 \\ = -5 \neq 0$$

safe division

$$\alpha_x + \alpha_y + \alpha_z - 3 \\ = 0$$

unsafe division

$$\alpha_x + \alpha_y + \alpha_z - 3 \\ = -1 \neq 0$$

safe division

$$\alpha_x + \alpha_y + \alpha_z - 3 \\ = -3 \neq 0$$

safe division