

$$\rho \propto \frac{a^4 (b^4 (- (x^2 - 1)) + b^2 (x^2 + z^2 + 1) - z^2) + a^2 b^2 (b^2 (x^2 + y^2 + 1) + y^2 + z^2) - b^4 y^2}{(a^2 (b^2 (x^2 + 1) + z^2) + b^2 y^2)^2} \quad (1)$$

$$x = 0 \quad \frac{a^4 (b^4 + b^2 (z^2 + 1) - z^2) + a^2 b^2 (b^2 (y^2 + 1) + y^2 + z^2) - b^4 y^2}{(a^2 (b^2 + z^2) + b^2 y^2)^2} > 0 \quad (2)$$

$$y = 0 \quad \frac{a^2 (b^4 (- (x^2 - 1)) + b^2 (x^2 + z^2 + 1) - z^2) + b^2 (b^2 (x^2 + 1) + z^2)}{a^2 (b^2 (x^2 + 1) + z^2)^2} > 0 \quad (3)$$

$$z = 0 \quad \frac{a^4 (b^2 (- (x^2 - 1)) + x^2 + 1) + a^2 (b^2 (x^2 + y^2 + 1) + y^2) - b^2 y^2}{b^2 (a^2 (x^2 + 1) + y^2)^2} > 0 \quad (4)$$