4)
$$4xy^{2} - a^{2}x + b^{2}y + c^{2}z = abc$$
.

 $4 - \left(\frac{a^{2}}{y^{2}} + \frac{b^{2}}{x^{2}} + \frac{c^{2}}{x^{2}}\right) = \frac{abc}{xy^{2}}$
 $\frac{a^{2}}{y^{2}} + \frac{b^{2}}{x^{2}} + \frac{c^{2}}{x^{2}} \ge \frac{abc}{xy^{2}}$
 $4 - \left(\frac{a^{2}}{y^{2}} + \frac{b^{2}}{x^{2}} + \frac{c^{2}}{x^{2}}\right) \le 4 - 3 \sqrt{3} \frac{a^{2}b^{2}c^{2}}{x^{2}y^{2}z^{2}}$
 $\frac{abc}{xy^{2}} = k$.

 $\frac{abc}{xy^{2}} = k$.

 $27 \cdot k^{2} \le 64 - 46k + 12k^{2} - k^{3}$
 $\Rightarrow k^{3} + 15k^{2} + 46k - 64 \le 0$
 $k \le 1$
 $3k^{2} - 30k + 46$
 $k \le 1$
 $4k \le 1$

abc < xyz atb+c = xty+2 = l. 2 3 3 abc. abc < xyz. 2 > 3 xyz