

N1. Мүмкін мәндер:  $\frac{1}{3}$

$$N3: S = 30$$

$$N1 \quad \frac{a^2 b^2}{a^4 - 2b^4} = 1.$$

$$\frac{a^2 b^2}{a^4 - 2b^4} - 1 = 0$$

$$\frac{a^2 b^2 - a^4 + 2b^4}{a^4 - 2b^4} = 0.$$

$$\frac{a^2 b^2 + b^4 - (a^4 - b^4)}{a^4 - 2b^4} = 0$$

$$\frac{b^2(a^2 + b^2) - (a^2 - b^2)(a^2 + b^2)}{a^4 - 2b^4} = 0.$$

$$\frac{(a^2 + b^2)(2b^2 - a^2)}{a^4 - 2b^4} = 0:$$

$$a^2 + b^2 \neq 0.$$

$$a^4 \neq 2b^4:$$

$$a^2 > 0 \quad b^2 > 0:$$

$$2b^2 - a^2 = 0:$$

$$a^2 = 2b^2.$$

$$\frac{a^2 - b^2}{a^2 + b^2} = \frac{2b^2 - b^2}{2b^2 + b^2} = \frac{b^2}{3b^2} = \frac{1}{3}.$$

$$\text{яко } \frac{1}{3}.$$