



$$C_8^2 = \frac{8 \cdot 7}{2} = 28$$

$$D^2 + d^2 = 2(a^2 + b^2)$$

$$\begin{aligned}
 & (a_1^2 + a_2^2 + a_3^2 + a_4^2 + a_5^2 + a_6^2 + a_7^2 + a_8^2) \cdot (b_1^2 + b_2^2 + b_3^2 + b_4^2 + b_5^2 + b_6^2 + b_7^2 + b_8^2) = \\
 & (a_1b_1 - a_2b_2 - a_3b_3 - a_4b_4 - a_5b_5 - a_6b_6 - a_7b_7 - a_8b_8)^2 + \\
 & (a_2b_1 + a_1b_2 + a_4b_3 - a_3b_4 + a_6b_5 - a_5b_6 - a_8b_7 + a_7b_8)^2 + \\
 & (a_3b_1 - a_4b_2 + a_1b_3 + a_2b_4 + a_7b_5 + a_8b_6 - a_5b_7 - a_6b_8)^2 + \\
 & (a_4b_1 + a_3b_2 - a_2b_3 + a_1b_4 + a_8b_5 - a_7b_6 + a_6b_7 - a_5b_8)^2 + \\
 & (a_5b_1 - a_6b_2 - a_7b_3 - a_8b_4 + a_1b_5 + a_2b_6 + a_3b_7 + a_4b_8)^2 + \\
 & (a_6b_1 + a_5b_2 - a_8b_3 + a_7b_4 - a_2b_5 + a_1b_6 - a_4b_7 + a_3b_8)^2 + \\
 & (a_7b_1 + a_8b_2 + a_5b_3 - a_6b_4 - a_3b_5 + a_4b_6 + a_1b_7 - a_2b_8)^2 + \\
 & (a_8b_1 - a_7b_2 + a_6b_3 + a_5b_4 - a_4b_5 - a_3b_6 + a_2b_7 + a_1b_8)^2
 \end{aligned}$$

24 y y f
12 + 12 -