

1 вариант

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| | |
|---|----------------|
| 1 | C_{17}^{13} |
| 2 | C_{464}^{99} |
| 5 | 116 |

Решение

① $\overbrace{0 \ 0 \ 1 \ \dots \ 1 \ 0}^{17}$ — м.к. числа четное

$$C_{17}^{13} = C_{17}^4$$

Ответ: C_{17}^{13}

② $x_1 + \dots + x_{100} = 65 \quad x_i \geq -3$

$$y_i = x_i + 3, \quad i \in \overline{1, 100}$$

$$\sum_{i=1}^{100} y_i = 65 + 3 \cdot 100 = 365$$

$$C_{365+100-1}^{100-1} = C_{464}^{99}$$

Ответ: C_{464}^{99}

$$⑤ \quad \{A\} = 177$$

$$\{2\} = 66$$

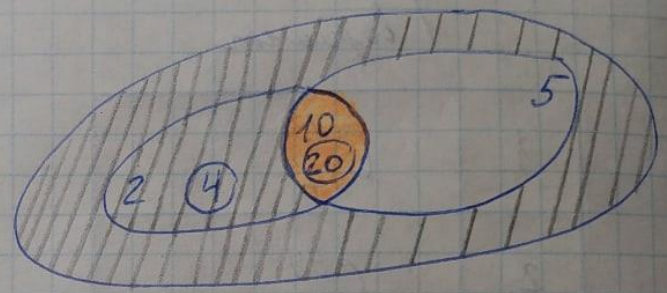
$$\{5\} = 73$$

$$\{4\} = 10$$

$$\{10\} = 12$$

$$\{20\} = 6$$

$$\{5\} \cup \{4\} \cup \{2\} = ?$$



$$- \{5\} = \{A\} - \{5\} = 177 - 73 = 104$$

$$- \{5\} + \{10\} = 104 + 12 = 116$$

Answer: 116.