

Exercise 2.

$$\begin{aligned} a &= 2002 \\ b &= 2 \\ c &= 25 \end{aligned}$$

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$$\textcircled{1} I. \frac{2002}{50} = [40; 25]$$

$$2002 = 40 \cdot 50 + 2$$

$$50 = 25 \cdot 2$$

$$\text{НОД}(2002, 50) = 2$$

$$\textcircled{II} \frac{2002}{50} = \frac{1001}{25} = 40 + \frac{1}{25} = [40; 25]$$

Ответ: $[40; 25]$

$$\begin{aligned} \textcircled{2} \sqrt{50} &= 7 + (\sqrt{50} - 7) = 7 + \frac{1}{\left(\frac{1}{\sqrt{50} - 7}\right)} = 7 + \frac{1}{\left(\frac{\sqrt{50} + 7}{(\sqrt{50} - 7)(\sqrt{50} + 7)}\right)} = \\ &= 7 + \frac{1}{\left(\frac{\sqrt{50} + 7}{1}\right)} = 7 + \frac{1}{\sqrt{50} + 7} = 7 + \frac{1}{7 + (\sqrt{50} - 7) + 7} = \\ &= 7 + \frac{1}{14 + (\sqrt{50} - 7)} = [7; 14] \end{aligned}$$

Ответ: $[7; 14]$