

$$A = \left\{ \frac{289}{17}, \frac{13}{5}, -\sqrt{0,1024}, \sqrt{243}, -\sqrt{\frac{121}{169}} \right\}$$

$$A \cap (\mathbb{R} \setminus \mathbb{Q}) = \left\{ \sqrt{243} \right\}$$

$$A \cap \mathbb{Z} = \{17\}$$

$$A \cap \mathbb{Q} = \left\{ 17, \frac{13}{5}, -0,32, \frac{11}{13} \right\}$$

$$A \cap \mathbb{R} = \left\{ 17, \frac{13}{5}, -0,32, \sqrt{243}, \frac{11}{13} \right\}$$

$$289 : 17 = 17$$

$$\begin{array}{r} 17 \\ \hline 119 \\ \hline 119 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 119 \\ \hline 119 \\ \hline 0 \end{array}$$

$$\frac{289}{17} = 17$$

$$-\sqrt{0,1024} = -\sqrt{\frac{1024}{10000}} = -\frac{\sqrt{1024}}{\sqrt{10000}} = -\frac{\sqrt{2^6}}{\sqrt{10^4}} = -\frac{2^3}{10^2} = -\frac{8}{100} = -\frac{32}{100} = -0,32$$

$$\begin{array}{r} 1024 \\ \hline 9 \quad | \\ 124 \\ \hline 124 \\ \hline 0 \end{array} \quad \begin{array}{r} 32 \\ \hline 62 \cdot 2 \\ \hline 32 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 0,1024 \\ \hline 0 \quad | \quad 9 \\ 10 \\ \hline 9 \\ \hline 0 \end{array} \quad \begin{array}{r} 0,32 \\ \hline 3 \quad | \quad 9 \\ 3 \\ \hline 9 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 243 \\ 81 \quad | \quad 3 \\ \hline 1 \end{array} \Rightarrow \sqrt{243} = \sqrt{3^4 \cdot 3} = 3^2 \cdot \sqrt{3} = 9\sqrt{3}$$

$$\begin{array}{r} 121 \\ \hline 1 \quad | \quad 11 \\ 21 \\ \hline 21 \\ \hline 0 \end{array} \quad 121 \cdot 1 = 121$$

$$\sqrt{\frac{121}{169}} = \frac{\sqrt{121}}{\sqrt{169}} = \frac{11}{13}$$

$$\begin{array}{r} 169 \\ \hline 13 \quad | \quad 13 \\ \hline 13 \\ \hline 0 \end{array} \quad 13 \mid 13$$

TRANSF. IN FR. ORDINARE IRRED.

$$0,24 = \frac{24}{100} = \frac{6}{25}$$

$$1,5 = \frac{15}{10} = \frac{3}{2}$$

$$1,23(4) = 1 + 0,23(4) -$$

$$= 1 + \frac{234 - 23}{900} = 1 + \frac{211}{900} = \frac{1111}{900}$$

$$\begin{cases} 10,2(3) = 10 + \frac{23 - 2}{90} = \frac{307}{30} \\ 0,(12) = \frac{12(3)}{99} = \frac{4}{33} \\ 10 + \frac{21(3)}{90} = 10 + \frac{7}{30} = \frac{307}{30} \end{cases}$$