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

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

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

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

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

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

289 : 17 = 17
17
119
119

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

$-\sqrt{0,1024} = -\sqrt{\frac{1024}{10000}} = -\frac{\sqrt{1024}}{\sqrt{10000}} = -\frac{\sqrt{2^{10}}}{\sqrt{10^4}} = -\frac{2^5}{10^2} = -\frac{32}{100} = -0,32$

$\sqrt{1024} = 32$

$2 \cdot 2 = 4$

9
124
124

$\sqrt{0,1024} = 0,32$

$3 \cdot 3 = 9$

$6 \cdot 2$

0
10
9
124
124

$243 = 3^4 \cdot 3$

$\Rightarrow \sqrt{243} = \sqrt{3^4 \cdot 3} = 3^2 \cdot \sqrt{3} = 9\sqrt{3}$

$\sqrt{\frac{121}{169}} = \frac{\sqrt{11^2}}{\sqrt{13^2}} = \frac{11}{13}$

$\sqrt{121} = 11$

$21 \cdot 1 = 21$

1
21
21
---

169 | 13
13 | 13
1

TRASF. IN FR. ORDINARE IRED.

$0,24 = \frac{24(4}{100} = \frac{6}{25}$

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

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

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

$10,2(3) = 10 + \frac{23 - 2}{90} = \frac{307}{30}$

$0,(12) = \frac{12(3}{99} = \frac{4}{33}$

$10 + \frac{21(3}{90} = 10 + \frac{7}{30} = \frac{307}{30}$