NR. REALE

1) $A = \left\{ -\frac{289}{17};\ 0,1(2);\ \sqrt{484};\ -\frac{143}{11};\ \sqrt{72};\ \frac{119}{17} \right\}$

$A \cap \mathbb{N} = \{22; 7\}$

$\overset{\circ}{\mathbb{I}} = \mathbb{R} \setminus \mathbb{Q}$

$A \cap \mathbb{Z} = \{-17; 22; -13; 7\}$

$A \cap \mathbb{Q} = \{-17;\ 0,1(2);\ 22;\ -13; 7\}$

$A \cap \mathbb{R} = \{-17;\ 0,1(2);\ 22;\ -13;\ 6\sqrt{2};\ 7\} = A$

$A \cup \mathbb{N} = \mathbb{N} \cup \{-17,\ 0,1(2),\ -13,\ 6\sqrt{2}\}$

$A \cup \mathbb{Q} = \mathbb{Q} \cup \{6\sqrt{2}\}$

$A \cap (\mathbb{R} \setminus \mathbb{Q}) = \{6\sqrt{2}\}$

$\overset{\circ}{\mathbb{I}} \cap \mathbb{Q} = \Phi$

$-\frac{289}{17} = -\frac{17^{2}\cdot 17}{17_{1}} = -\frac{17}{1} = -17$

$\mathbb{N} \subset \mathbb{Z} \subset \mathbb{Q} \subset \mathbb{R}$

$\overset{\circ}{\mathbb{I}} = \mathbb{R} \setminus \mathbb{Q}$

$\mathbb{R} = \mathbb{Q} \cup \overset{\circ}{\mathbb{I}}$

$\sqrt{484} = \sqrt{2^{2} \cdot 11^{2}} = 2 \cdot 11 = 22$

$\sqrt{484}$ | 22

4 ↑

$= 84$

84

$==$

$42 \cdot 2 = 84$

$143 : 11 = 13$

11

33

33

$==$

$484 \mid 2^{2}$

$121 \mid 11$

$11 \mid 11$

1

$-\frac{143}{11} = -13$

$\sqrt{72} = \sqrt{2^2 \cdot 3^2 \cdot 2} = 2 \cdot 3\sqrt{2} = 6\sqrt{2}$

$72 = 2^2 \cdot 3^2 \cdot 2$

$\frac{119}{17} = 7$

$119 : 17 = 7$

$\frac{119}{==}$

$1 : 6 = 0,16\ldots$

Ordonați crescător:

$\frac{13}{5}$; $-0,1(2)$; $\frac{1}{6}$; $-\frac{169}{13}$; $\frac{-1}{4}$

$1 : 4 = 0,25$

$2,6$; $-0,1(2)$; $0,1(6)$; -13 ; $-0,25$

ORDONĂM NR. POZITIVE

$0,1(2) < 0,1(6) < 0,25 < 2,6 < 13$

$-13 < -0,25 < -0,1(2) < 0,1(6) < 2,6$

$3 < 10 \quad | \cdot(-1)$

$-3 > -10 \Rightarrow$

$-10 < -3$

ORDONAȚI DESCRESCĂTOR

$\frac{13}{4}$; $0,6$; $\frac{1}{12}$; $\frac{7}{18}$

$0,6 = \frac{6^{12}}{10} = \frac{3}{5}$

$\frac{13}{4}$; $\frac{3}{5}$; $\frac{1}{12}$; $\frac{7}{18}$

$4 = 2^2 \quad 5 = 5 \quad 12 = 2^2 \cdot 3 \quad 18 = 3^2 \cdot 2$

$[4, 5, 12, 18] = 2^2 \cdot 3^2 \cdot 5 = 180$

$\frac{13}{4}^{15}$; $\frac{3}{5}^{36}$; $\frac{1}{12}^{15}$; $\frac{7}{18}^{10} \Rightarrow \frac{585}{180}$; $\frac{108}{180}$; $\frac{15}{180}$; $\frac{70}{180}$

$$\Rightarrow \quad \frac{585}{180} > \frac{108}{180} > \frac{70}{180} > \frac{15}{180}$$

TRANSF. IN FR. ORDINARE

$$1,24 = \frac{124^{(4}}{100} = \frac{31}{25}$$

$$10,(39) = 10 + \frac{39^{(3}}{99} = 10 + \frac{13}{33} = 10\,\frac{13}{33} = \frac{10\cdot 33+13}{33} = \frac{343}{33}$$

$$1,2(30) = 1 + \frac{230-2}{990} = 1 + \frac{228^{(2}}{990} = 1\frac{114}{495} = \frac{609}{495}$$

$$0,10(3) = \frac{103-10}{900} = \frac{93^{\backslash 3}}{900} = \frac{31}{300}$$