

A.7.6. Διαίρεση ρητών αριθμών.

Ασκ. 1/Σελ. 134.

$$\Delta : \delta = \Delta \cdot \frac{1}{\delta} = \frac{\Delta}{\delta}$$

(α) Θετικό (β) αρνητικό (γ) Διαρετέο, διαρέτη.

(δ) λόγος.

Ασκ. 2/Σελ. 134

$$(α) (+15,15) : (+3) = \boxed{+5,05}$$

$$(β) (-4,5) : (-1,5) = +3 = \boxed{3}$$

$$(γ) (-81) : (+0,9) = \boxed{-90}$$

$$(δ) 49 : (-7) = \boxed{-7}$$

Ασκ. 3/Σελ. 134

$$x = -\frac{7}{3}, y = \frac{5}{-6}$$

$$x+y = -\frac{7}{3} + \left(-\frac{5}{6}\right) = -\frac{14}{6} - \frac{5}{6} = \boxed{-\frac{19}{6}}$$

$$x-y = -\frac{7}{3} - \left(-\frac{5}{6}\right) = -\frac{14}{6} + \frac{5}{6} = -\frac{9}{6} = \boxed{-\frac{3}{2}}$$

$$x \cdot y = \left(-\frac{7}{3}\right) \cdot \left(-\frac{5}{6}\right) = \boxed{+\frac{35}{18}}$$

$$x:y = \left(-\frac{7}{3}\right) : \left(-\frac{5}{6}\right) = \left(-\frac{7}{3}\right) \cdot \left(-\frac{6}{5}\right) = \boxed{+\frac{14}{5}}$$

$$x = 1,7, y = 2,3$$

$$x+y = 1,7 + 2,3 = \boxed{4}$$

$$x-y = 1,7 - (2,3) = 1,7 - 2,3 = \boxed{-0,6}$$

$$x \cdot y = 1,7 \cdot 2,3 = \boxed{3,91}$$

$$x:y = 1,7 : 2,3 = \frac{17}{23} \approx \boxed{0,739}$$

$$\begin{array}{r} 1,7 \\ \times 2,3 \\ \hline 51 \\ 34 \\ \hline 3,91 \end{array}$$

$$\begin{array}{r} 170 \overline{) 23} \\ 090 \overline{) 0,739} \\ 210 \\ \hline 03 \end{array}$$

$$x = -\frac{4}{5}, y = -1$$

$$x+y = -\frac{4}{5} - 1 = -1\frac{4}{5} = \boxed{-\frac{9}{5}}$$

$$x-y = -\frac{4}{5} - (-1) = -\frac{4}{5} + \frac{5}{5} = \boxed{\frac{1}{5}}$$

$$x \cdot y = \left(-\frac{4}{5}\right) \cdot (-1) = \boxed{+\frac{4}{5}}$$

$$x:y = \left(-\frac{4}{5}\right) : (-1) = \boxed{+\frac{4}{5}}$$

Α6κ. 4 / Σελ 134Διαίρεση πηρών

$$(α) \frac{10}{0,25} = \boxed{40} \quad (β) \frac{-0,75}{-0,5} = + \left(\frac{\frac{75}{100}}{\frac{5}{10}} \right) = \frac{75 \cdot 10}{5 \cdot 100} \cdot \frac{25}{25} = \boxed{\frac{3}{2}}$$

$$(γ) \frac{-120}{(-12)+(-8)} = \frac{-120}{-20} = \boxed{+6} = \boxed{6}$$

$$(δ) (-3\frac{1}{5}) : (-2\frac{2}{3}) = (-\frac{16}{5}) : (-\frac{8}{3}) = (-\frac{16}{5}) \cdot (-\frac{3}{8}) = +\frac{6}{5} = \boxed{\frac{6}{5}}$$

Α6κ 5 / Σελ 134

$$(α) -3x = 74 \Rightarrow x = 74 : (-3) = -\frac{74}{3} = -24\frac{2}{3}$$

$$(β) -0,14x = -49 \Rightarrow x = \frac{-49}{-0,14} = \frac{4900}{14} = \frac{700}{2} = \boxed{350}$$

$$(γ) x \cdot (-2) = 12 \Rightarrow x = \frac{12}{-2} = \boxed{-6}$$

$$(δ) \frac{2}{3} \cdot x = -\frac{4}{6} \Rightarrow x = -\frac{4}{6} : \frac{2}{3} = -\frac{4}{6} \cdot \frac{3}{2} = -\frac{6}{6} = \boxed{-1}$$

Α6κ 6 / Σελ 134

$$(α) -\frac{1}{3} + \frac{2}{-6} - \frac{12}{-15} = -\frac{1}{3} - \frac{2}{6} + \frac{12}{15} = -\frac{10}{30} - \frac{10}{30} + \frac{24}{30} = \frac{4}{30} = \boxed{\frac{2}{15}}$$

$$(β) \frac{(-2) \cdot (-5) \cdot (-1)}{-10} = \frac{+10}{-10} = \boxed{-1}$$

$$(γ) (-\frac{7}{3} - \frac{5}{-3}) : (-\frac{3}{2}) = (-\frac{7}{3} + \frac{5}{3}) \cdot (-\frac{2}{3}) = (-\frac{2}{3}) \cdot (-\frac{2}{3}) = \boxed{+\frac{4}{9}}$$

Α6κ. 7 / Σελ 134

$$[(-8) \cdot (-\frac{7}{8}) - (-15) : (-8)] \cdot (-8) + (-27) : (-\frac{9}{8}) =$$

$$[+7 - 15/8] \cdot (-8) + 27 \cdot \frac{8}{9} =$$

$$(-\frac{8}{8}) \cdot (-8) + 24 = +8 + 24 = +32 = \boxed{32}$$