

$$3) b) (24^{\circ}18' + 39^{\circ}26') - (94^{\circ} - 81^{\circ}45') = \textcircled{177.B} \textcircled{2}$$

$$= 63^{\circ}44' - 12^{\circ}15' = \underline{\underline{51^{\circ}29'}}$$

$$4) a) 8,05 \text{ km} - \square \text{ km} = 750 \text{ m}$$

$$0,75 \text{ km}$$

$$\square \text{ km} = 8,05 - 0,75$$

$$\square \text{ km} = 7,3$$

$$\underline{\underline{\square = 7,3}}$$

$$b) 0,68 \text{ dm}^2 = 50 \text{ mm}^2 + \square \text{ mm}^2$$

$$6800 \text{ mm}^2 = 50 \text{ mm}^2 + \square \text{ mm}^2$$

$$\square = 6800 - 50$$

$$\underline{\underline{\square = 6750}}$$

$$c) 0,85 \text{ cu}^3 + \square \text{ mm}^3 = 1 \text{ cu}^3$$

$$850 \text{ mm}^3 + \square \text{ mm}^3 = 1000 \text{ mm}^3$$

$$\square = 1000 - 850$$

$$\underline{\underline{\square = 150}}$$

$$d) \square \text{ kg} + 0,9 \text{ g} = 1 \text{ t}$$

$$\square \text{ kg} + 90 \text{ kg} = 1000 \text{ kg}$$

$$\square = 1000 - 90$$

$$\underline{\underline{\square = 910}}$$

$$e) 2250 \text{ m}^2 = 1,6 \text{ ha} - \square \text{ a}$$

$$22,5 \text{ a} = 160 \text{ a} - \square \text{ a}$$

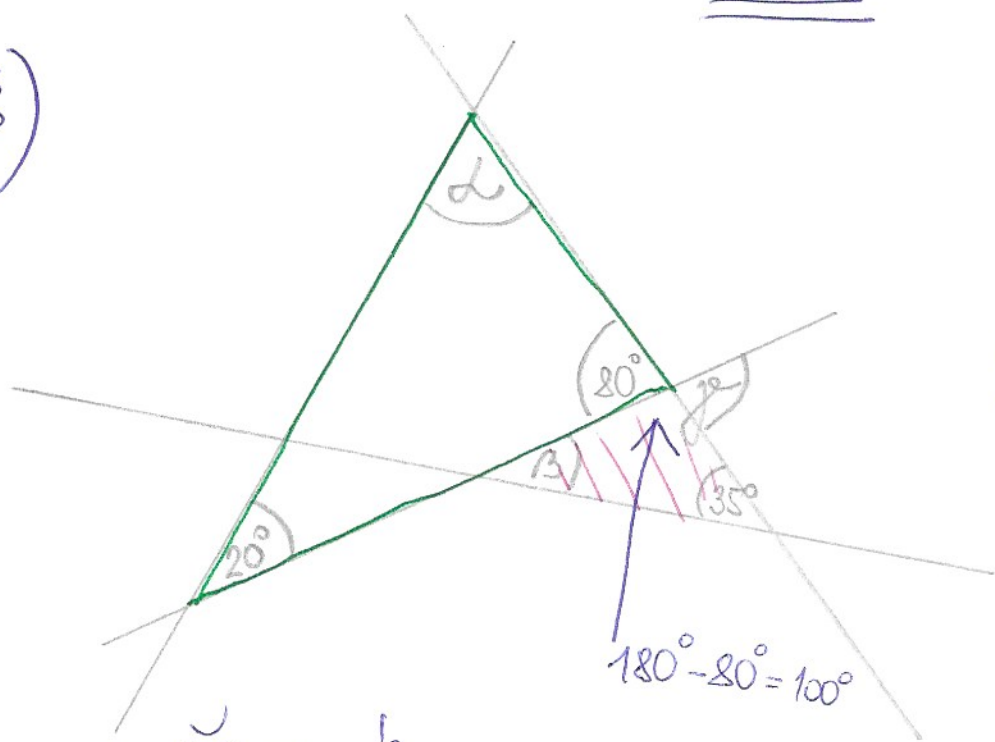
$$\square = 160 - 22,5$$

$$\underline{\underline{\square = 137,5}}$$

5) a) $2\frac{3}{5} = \frac{13}{5}$
 převrácené číslo k $\frac{13}{5}$ je $\frac{5}{13}$ (vymění se čísel a jmenovatel)

b) číslo nenávané... x
 $x \cdot 2\frac{3}{5} = \frac{5}{13}$ (jiné podobný)
 $x \cdot \frac{13}{5} = \frac{5}{13} \implies x \cdot 2 = 6$
 $x = \frac{5}{13} : \frac{13}{5} \implies x = 6 : 2$
 $x = \frac{5}{13} \cdot \frac{5}{13}$
 $x = \frac{25}{169}$
 Dané číslo je $\frac{25}{169}$.

6)



$\alpha = 80^\circ$
 (micholové úhly)

ve zeleného Δ :
 $\alpha + 20^\circ + 80^\circ = 180^\circ$
 $100^\circ \alpha = 180^\circ - 100^\circ$
 $\alpha = 80^\circ$

ve červeného Δ : $100^\circ + \beta + 35^\circ = 180^\circ$
 $\beta = 180^\circ - 135^\circ$
 $\beta = 45^\circ$

4) a) $\frac{2}{3} : \frac{5}{6} - 1,5 : \frac{15}{4} = \frac{2}{3} \cdot \frac{6^2}{5} - \frac{15^1}{10_5} \cdot \frac{4^2}{15_1} =$ M7.B (4)

$$= \frac{4}{5} - \frac{2}{5} = \underline{\underline{\frac{2}{5}}}$$

b) $\frac{\left(\frac{2^{.2}}{7^{.2}} + \frac{1^{.7}}{2^{.7}}\right) \cdot \frac{7}{11}}{\frac{1}{5}} = \frac{\frac{4+7}{14} \cdot \frac{7}{11}}{\frac{1}{5}} = \frac{\frac{11^1}{14_2} \cdot \frac{7^1}{11_1}}{\frac{1}{5}} =$

$$= \frac{\frac{1}{2}}{\frac{1}{5}} = \frac{5 \cdot 1}{2 \cdot 1} = \frac{5}{2} = \underline{\underline{2\frac{1}{2}}}$$

c) $-\frac{5}{14} \cdot \left(\frac{3^{.5}}{4^{.5}} - \frac{2^{.4}}{5^{.4}}\right) = \frac{-\frac{5}{14} \cdot \frac{15-8}{20}}{3 \cdot \frac{10}{40}} = \frac{-\frac{5}{14} \cdot \frac{7}{20}}{\frac{3}{1} \cdot \frac{1}{4}} = \frac{-\frac{5^1}{14_2} \cdot \frac{7^1}{20_4}}{\frac{3}{4}} =$

$$= \frac{-\frac{1}{8}}{\frac{3}{4}} = -\frac{1 \cdot 4^1}{8 \cdot 3} = \underline{\underline{-\frac{1}{6}}}$$

~~4)~~ d) $-4 - 2 \cdot (-3) + (-8 - 4) : (-6) + (-7) =$

$$= -4 + 6 + (-12) : (-6) - 7 = 2 + 2 - 7 = \underline{\underline{-3}}$$

e) $-\left\{-\left[-(-4+3) + 3 \cdot (-4)\right] + (-7) \cdot (-1) + (-5)\right\} =$

$$= -\left\{-\left[-(-1) + (-12)\right] + 7 - 5\right\} = -\left\{-\left[1 - 12\right] + 7 - 5\right\} =$$

$$= -\left\{-(-11) + 7 - 5\right\} = -\left\{11 + 7 - 5\right\} = \underline{\underline{-13}}$$