

UTRJEVANJE – ROMB in DELTOID

1. Načrtaj!

ROMB

$$a = 4 \text{ cm}$$

$$e = 6 \text{ cm}$$

ROMB

$$e = 5 \text{ cm}$$

$$f = 4 \text{ cm}$$

ROMB

$$a = 5 \text{ cm}$$

$$v = 3 \text{ cm}$$

DELTOID

$$a = 5 \text{ cm}$$

$$b = 3 \text{ cm}$$

$$\alpha = 105^\circ$$

DELTOID

$$a = 5 \text{ cm}$$

$$b = 4 \text{ cm}$$

$$f = 7 \text{ cm}$$

DELTOID

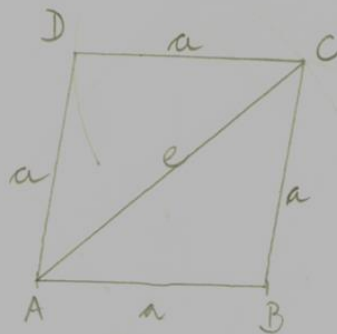
$$e = 2,5 \text{ cm}$$

$$f = 4,5 \text{ cm}$$

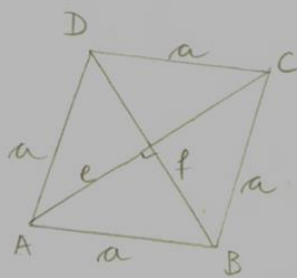
$$b = 2 \text{ cm}$$

2. Obseg romba je 12 cm. Koliko meri stranica romba?
3. Izračunaj stranico in ploščino romba, če je njegov obseg 75,6 m in višina 12,5 m!
4. Deltoid ima diagonalo e dolgo 7,5 cm, diagonalo f pa 29,4 cm. Izračunaj njegovo ploščino!
5. Ploščina deltoida meri 222 cm^2 , diagonalna f pa 37 cm. Koliko meri druga diagonalna?
6. Diagonali romba merita 16 cm in 12 cm, višina pa 9,6 cm. Izračunaj dolžino stranice!
7. V rombu merita diagonalni 18 cm in 24 cm, stranica pa 15 cm. Izračunaj višino tega romba!
8. Ploščina romba meri 126 cm^2 . Izračunaj dolžino diagonale e, če je $f = 14 \text{ cm}$.

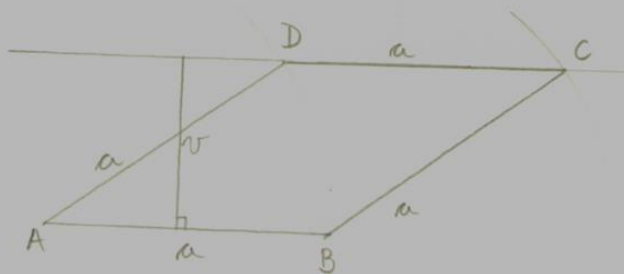
- ① ROMB
 $a = 4\text{cm}$
 $e = 6\text{cm}$



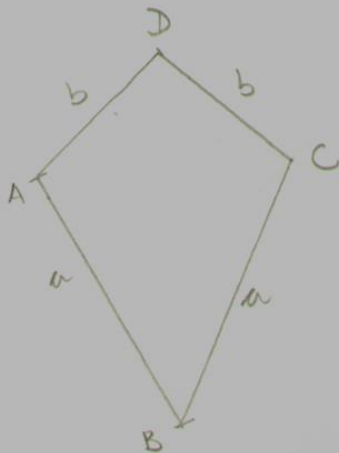
- ② ROMB
 $e = 5\text{cm}$
 $f = 4\text{cm}$



- ③ ROMB
 $a = 5\text{cm}$
 $r = 3\text{cm}$



- ④ DELTOID
 $a = 5\text{cm}$
 $b = 3\text{cm}$
 $\alpha = 105^\circ$

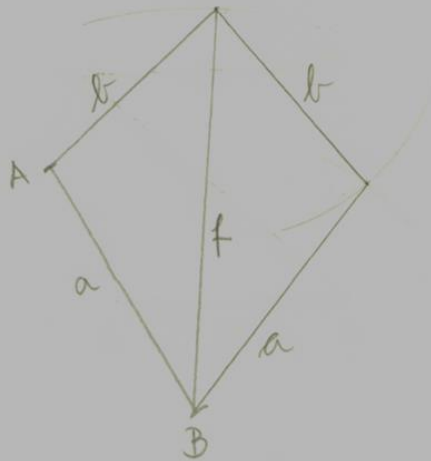


DELTOID

$a = 5\text{cm}$

$b = 4\text{cm}$

$f = 7\text{cm}$

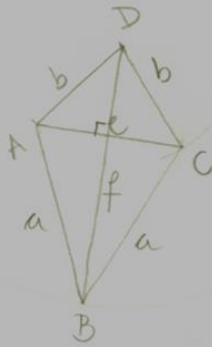


DELTOID

$e = 2,5\text{cm}$

$f = 4,5\text{cm}$

$b = 2\text{cm}$



② ROMB

$$\sigma = 12 \text{ cm}$$

$$a = ?$$

$$\sigma = 4 \cdot a$$

$$12 = 4 \cdot a$$

$$a = 12 : 4$$

$$a = 3 \text{ cm}$$

③ ROMB

$$\sigma = 75,6 \text{ cm}$$

$$r = 12,5 \text{ cm}$$

$$a = ?$$

$$p = ?$$

$$\sigma = 4 \cdot a$$

$$75,6 = 4 \cdot a$$

$$a = 75,6 : 4$$

$$a = 18,9 \text{ cm}$$

$$p = a \cdot r$$

$$p = 18,9 \cdot 12,5$$

$$p = 236,25 \text{ cm}^2$$

④ DELTOID

$$e = 7,5 \text{ cm}$$

$$f = 29,4 \text{ cm}$$

$$p = ?$$

$$p = \frac{e \cdot f}{2}$$

$$p = \frac{7,5 \cdot 29,4}{2}$$

$$p = 110,25 \text{ cm}^2$$

⑤ DELTOID

$$p = 222 \text{ cm}^2$$

$$f = 37 \text{ cm}$$

$$e = ?$$

$$p = \frac{e \cdot f}{2}$$

$$222 = \frac{e \cdot 37}{2}$$

$$222 \cdot 2 = e \cdot 37$$

$$444 = e \cdot 37$$

$$e = 444 : 37$$

$$e = 12 \text{ cm}$$

⑥ ROMB

$$e = 16 \text{ cm}$$

$$f = 12 \text{ cm}$$

$$r = 9,6 \text{ cm}$$

$$a = ?$$

$$p = a \cdot r$$

$$96 = a \cdot 9,6$$

$$a = 96 : 9,6$$

$$a = 10 \text{ cm}$$

$$p = \frac{e \cdot f}{2}$$

$$p = \frac{16 \cdot 12 \cdot 6}{2 \cdot 1}$$

$$p = 96 \text{ cm}^2$$

⑦ ROMB

$$e = 18 \text{ cm}$$

$$f = 24 \text{ cm}$$

$$a = 15 \text{ cm}$$

$$n = ?$$

$$p = a \cdot n$$

$$216 = 15 \cdot n$$

$$n = 216 : 15$$

$$n = 14,4 \text{ cm}$$

$$p = \frac{e \cdot f}{2}$$

$$p = \frac{18 \cdot 24 \cdot 12}{2 \cdot 1}$$

$$p = 216 \text{ cm}^2$$

⑧ ROMB

$$p = 126 \text{ cm}^2$$

$$f = 14 \text{ cm}$$

$$e = ?$$

$$p = \frac{e \cdot f}{2}$$

$$126 = \frac{e \cdot 14 \cdot 7}{2 \cdot 1}$$

$$126 = 7 \cdot e$$

$$e = 126 : 7$$

$$e = 18 \text{ cm}$$