MAT7 – Načrtovanje štirikotnikov in trapezov

1. **Načrtaj trapeze.**

a) Trapez
$a = 3{,}6\ cm$
$b = 2{,}2\ cm$
$\alpha = 60°$
$\beta = 45°$

b) Trapez
$a = 4\ cm$
$d = 2\ cm$
$c = 3\ cm$
$\alpha = 60°$

c) Trapez
$a = 5\ cm$
$b = 3\ cm$
$v = 2{,}5\ cm$
$\alpha = 90°$

2. **Načrtaj enakokrake trapeze**

a) Enakokraki trapez
$a = 6\ cm$
$b = 3\ cm$
$\beta = 60°$

b) Enakokraki trapez
$a = 4{,}8\ cm$
$b = 2{,}5\ cm$
$c = 3\ cm$

c) Enakokraki trapez
$a = 5{,}2\ cm$
$c = 3{,}6\ cm$
$v = 3{,}5\ cm$

3. **Načrtaj poljubni štirikotnik**

a) $ABCD$
$a = 3{,}8\ cm$
$b = 2\ cm$
$d = 2{,}5\ cm$
$\alpha = 50°$
$\beta = 70°$

b) $ABCD$
$a = 4{,}2\ cm$
$b = 2{,}5\ cm$
$c = 2{,}8\ cm$
$\alpha = 60°$
$\delta = 45°$

I.

1.

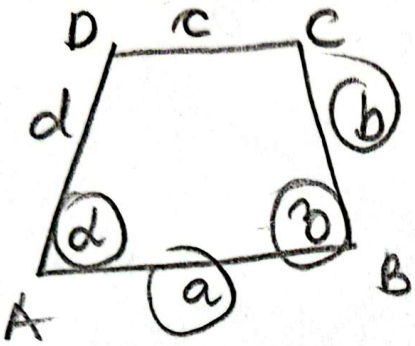
a). trapez

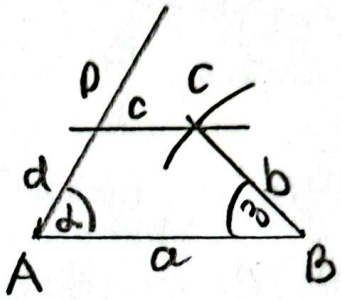
$a = 3,6\,cm$

$b = 2,2\,cm$

$\alpha = 60°$

$\beta = 45°$





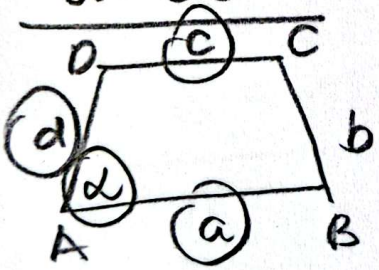
b). trapez

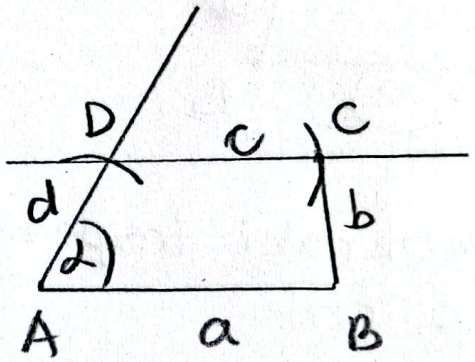
$a = 4\,cm$

$d = 2\,cm$

$c = 3\,cm$

$\alpha = 60°$





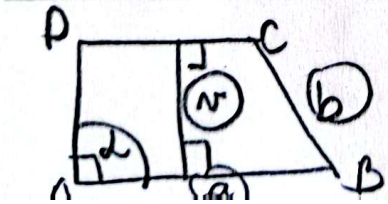
c). trapez

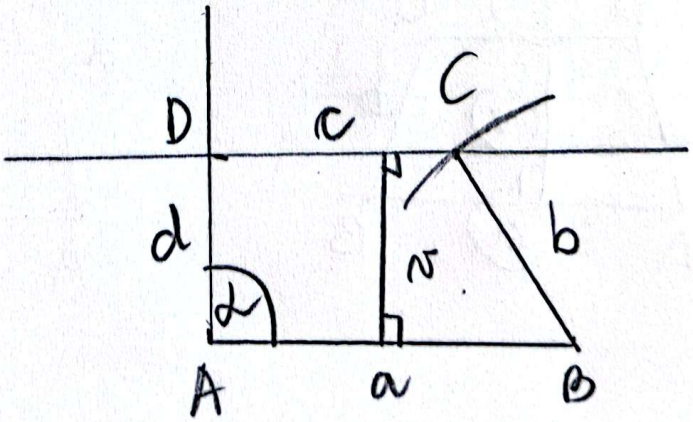
$a = 5\,cm$

$b = 3\,cm$

$r = 2,5\,cm$

$\alpha = 90°$



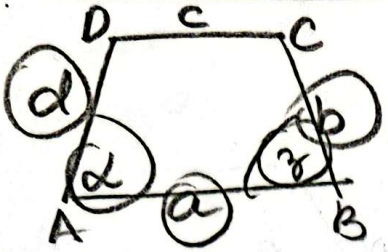


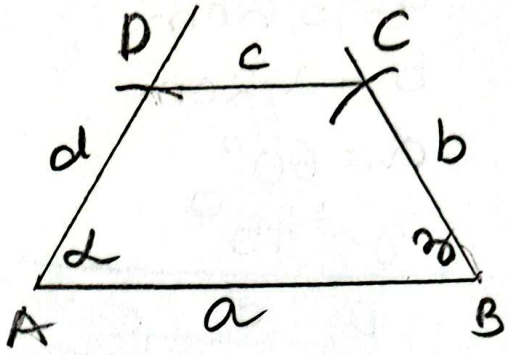
② a). enakokraki trapez

$a = 6\,cm$

$b = 3\,cm = d$

$\sphericalangle \alpha = 60^\circ = \gamma$



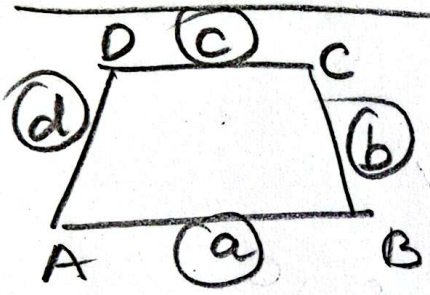


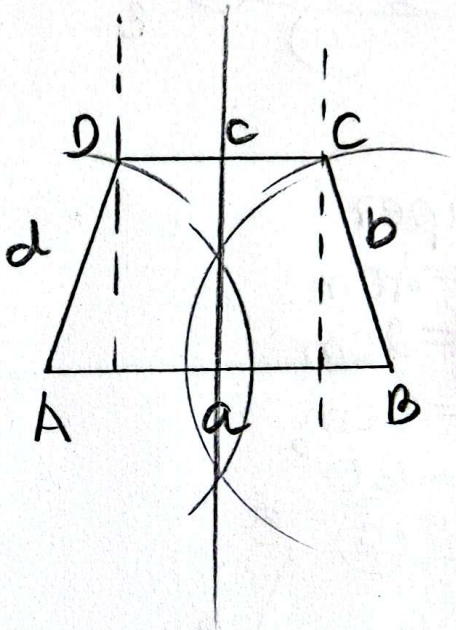
b). enakokraki trapez

$a = 4,8\,cm$

$b = 2,5\,cm$

$c = 3\,cm$



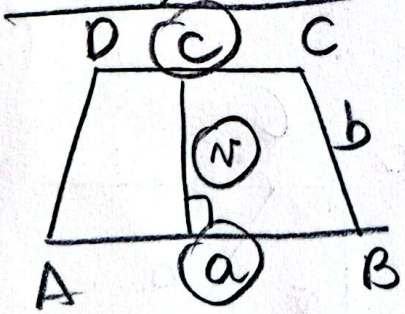


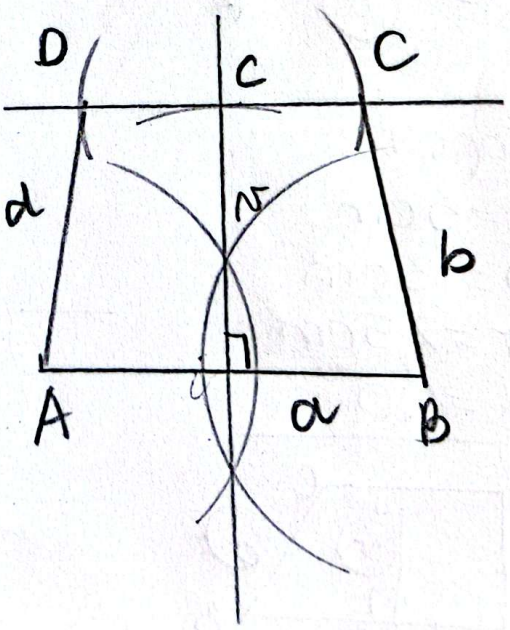
c). enakokraki trapez

$a = 5,2\,cm$

$c = 3,6\,cm$

$v = 3,5\,cm$

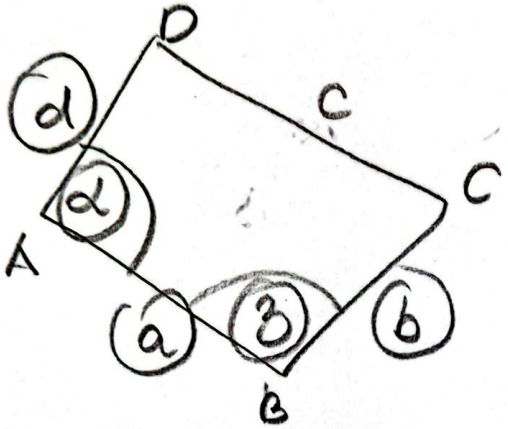


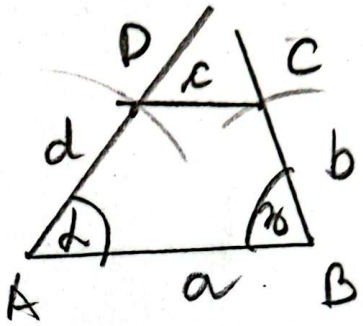


I

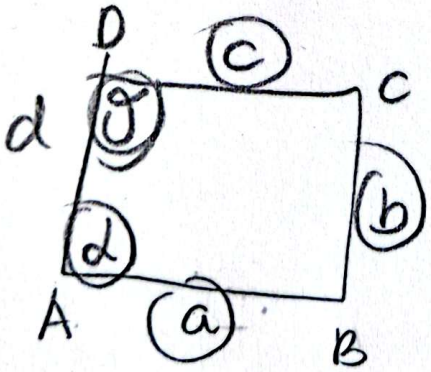
(3). 4-kotnik

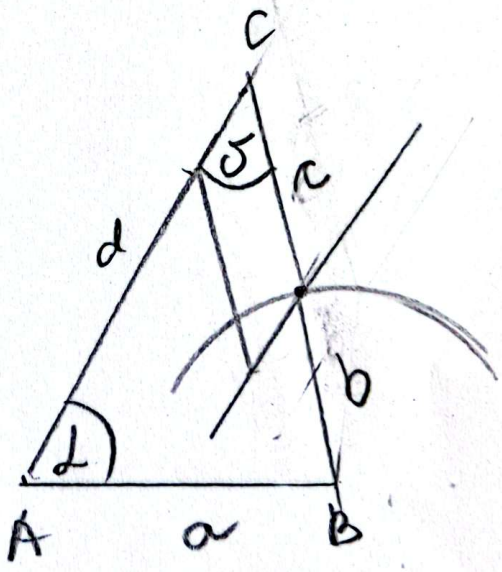
a). $a = 3,8\,cm$
$b = 2\,cm$
$d = 2,5\,cm$
$\alpha = 50°$
$\beta = 70°$





b). $a = 4,2\,cm$
$b = 2,5\,cm$
$c = 2,8\,cm$
$\alpha = 60°$
$\delta = 45°$





MAT7 – Načrtovanje deltoidov in paralelogramov

1. **Načrtaj deltoide.**

   a. **deltoid**
   f = 7 cm
   a = 6 cm
   c = 3 cm

   b. **deltoid**
   a = 5 cm
   β = 90°
   f = 8 cm

   c. **deltoid**
   a = 3 cm
   c = 6 cm
   e = 5 cm

2. **Načrtaj paralelograme.**

   a. **paralelogram**
   a = 6 cm
   b = 4 cm
   α = 70°

   b. **paralelogram**
   e = 7 cm
   f = 5 cm
   $\measuredangle ASB = 130°$

   c. **paralelogram**
   a = 4 cm
   b = 7 cm
   f = 5 cm

3. **Načrtaj rombe.**

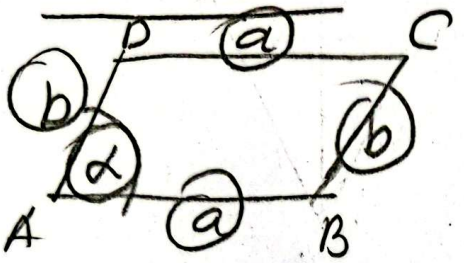
   a. **romb**
   a = 5 cm
   β = 135°

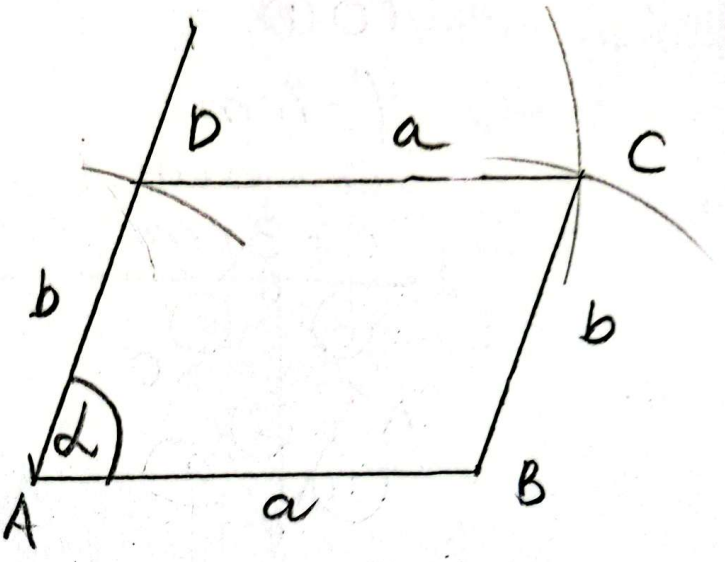
   b. **romb**
   e = 5 cm
   f = 7 cm

   c. **romb**
   a = 4 cm
   e = 6 cm

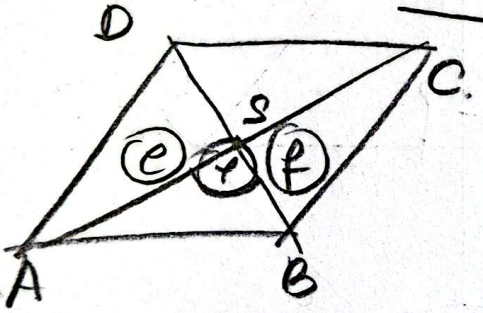
② PARALELOGRAM

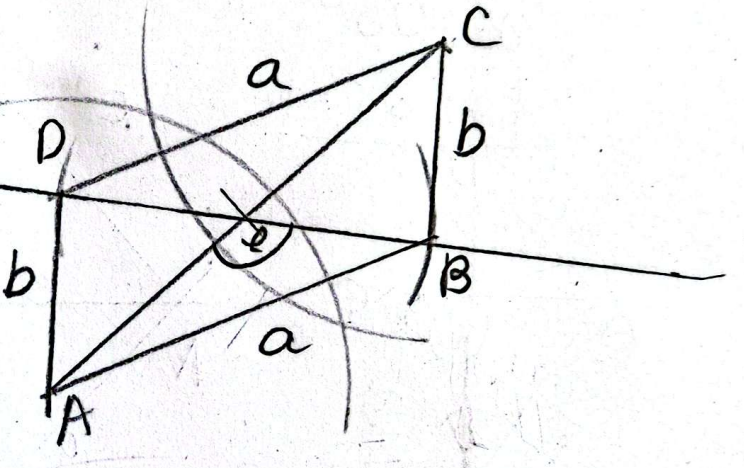
a) $a = 6\,cm$
$b = 4\,cm$
$\alpha = 70°$



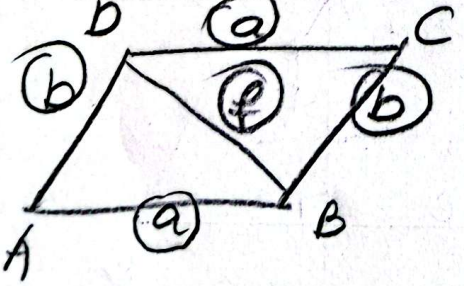


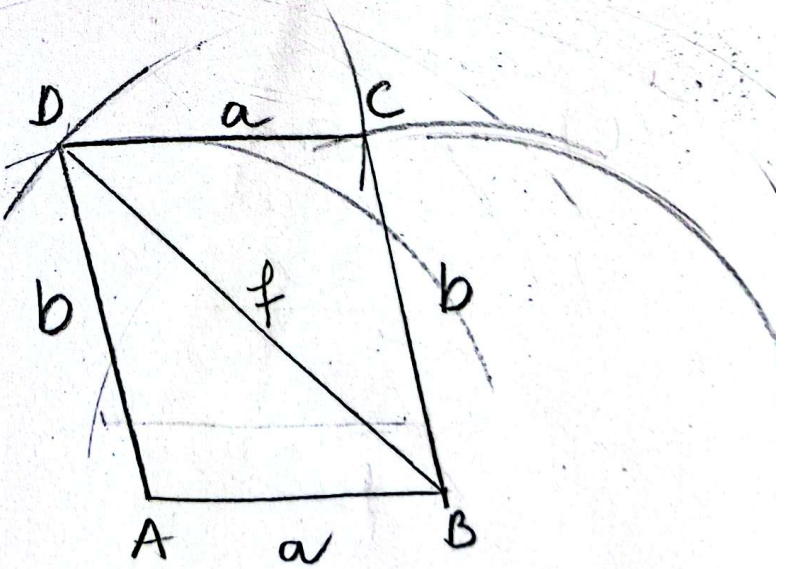
b), $e = 7\,cm$
$f = 5\,cm$
$\sphericalangle ASB = 130°$





c). $a = 4\,cm$
$b = 4\,cm$
$f = 5\,cm$



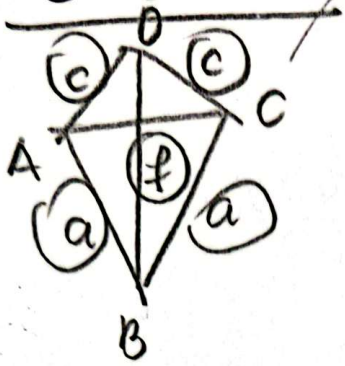


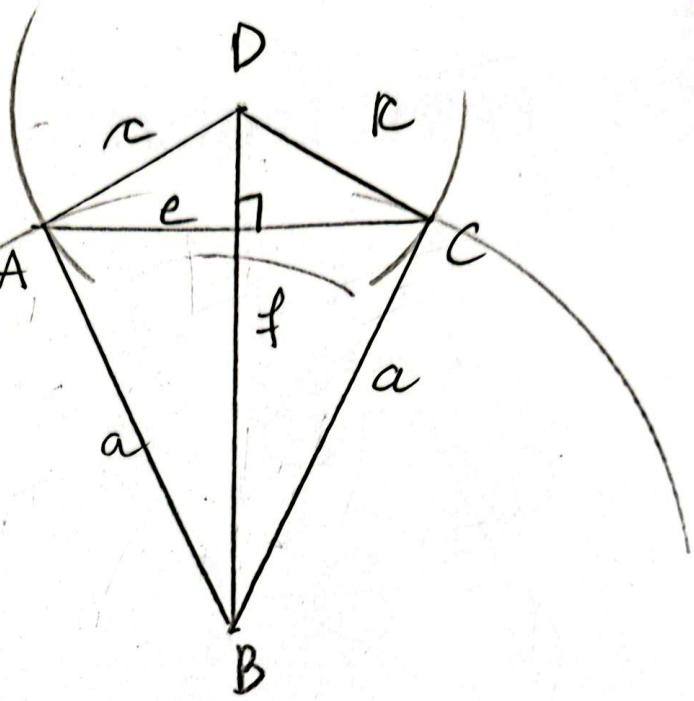
① . DELTOID

a). $f = 7\,cm$

$a = 6\,cm$

$c = 3\,cm$

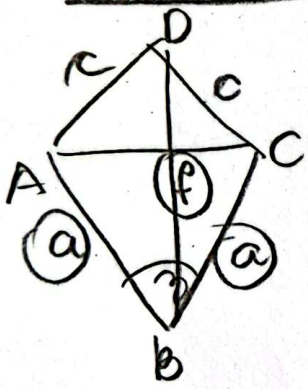


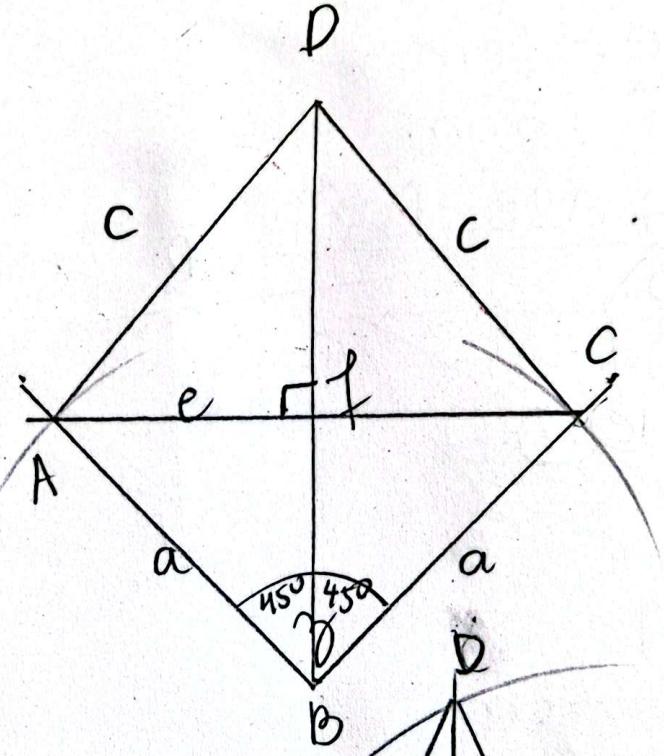


② b). $a = 5\,cm$

$\beta = 90°$

$f = 8\,cm$

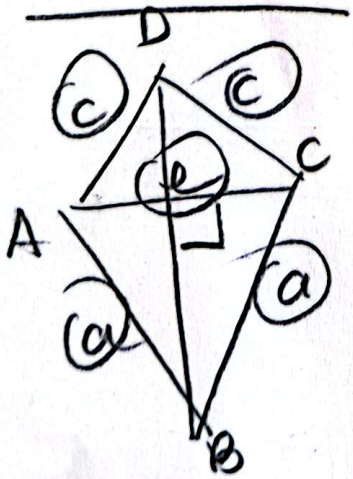


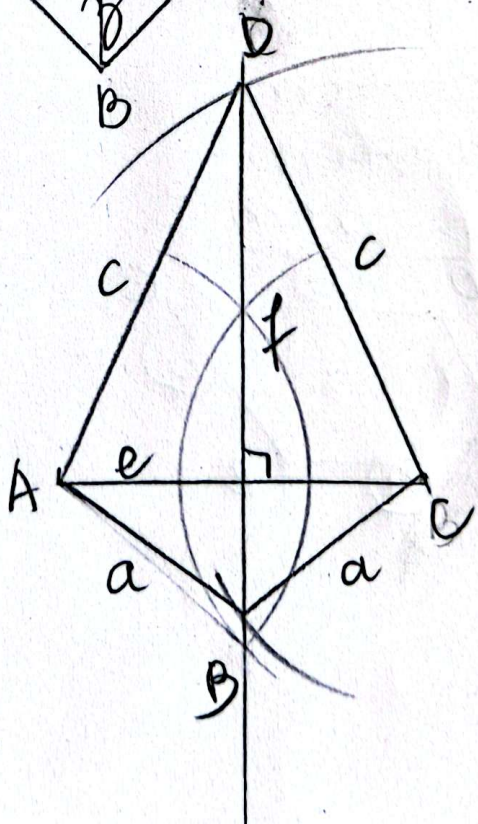


c). $a = 3\,cm$

$c = 6\,cm$

$e = 5\,cm$

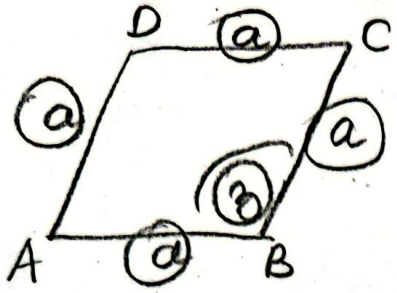


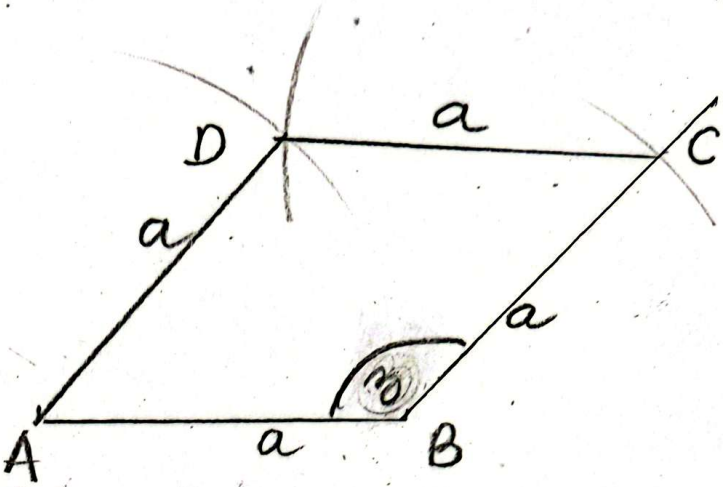


③. ROMB

a). $a = 5\,cm$

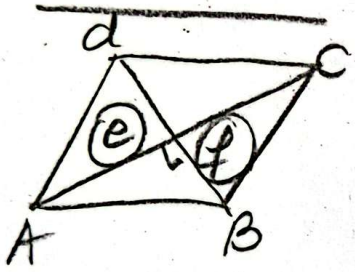
$\beta = 135^\circ$

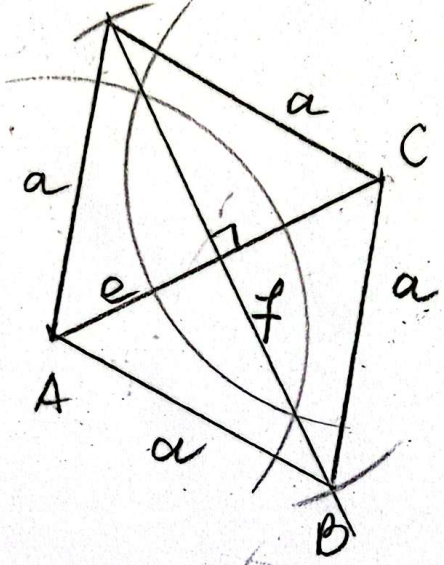




b). $e = 5\,cm$

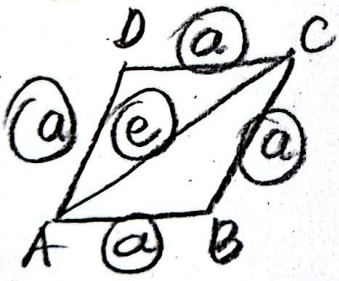
$f = 7\,cm$

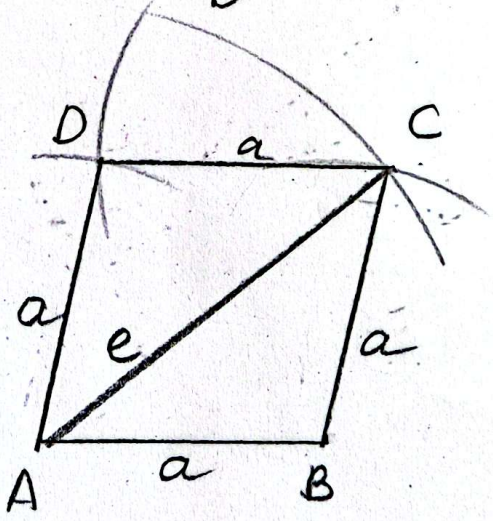




c). $a = 4\,cm$

$e = 6\,cm$





MAT7 – Načrtovanje osno in središčno somernih štirikotnikov

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1. **Načrtaj deltoid:** f = 6 cm, δ = 60°, c = 4 cm
2. **Načrtaj romb:** f = 6 cm, a = 5 cm
3. **Načrtaj kvadrat:** e = 5 cm
4. **Načrtaj pravokotnik:** e = 7 cm, $\measuredangle ASB$ = 120°
5. **Načrtaj paralelogram:** e = 5 cm, f = 8 cm, $\measuredangle ASD$ = 40°
6. **Načrtaj enakokraki trapez:** a = 7 cm, b = 4 cm, α = 65°
7. **Načrtaj kvadrat:** r_o = 3 cm
8. **Načrtaj pravokotnik:** r_o = 3 cm, a = 5 cm
9. **Načrtaj enakokraki trapez:** r_o = 3 cm, a = 5 cm, c = 3 cm
10. **Načrtaj kvadrat:** r_v = 2,5 cm

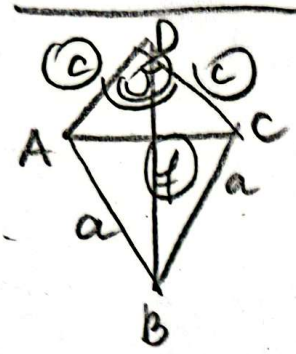
III

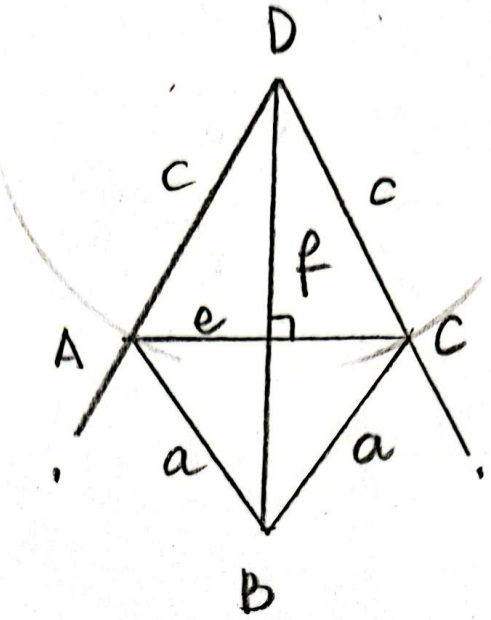
① . DELTOID

$f = 6\,cm$

$\sphericalangle = 60°$

$c = 4\,cm$

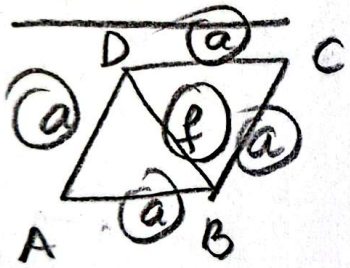


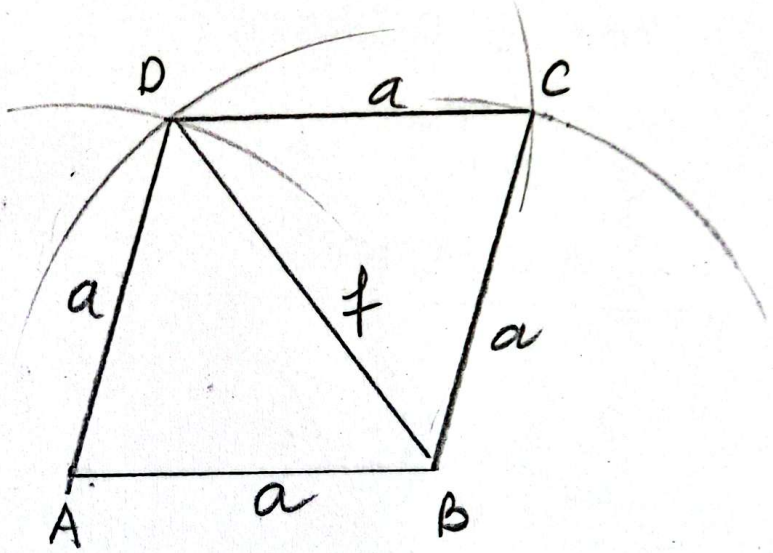


② . ROMB

$f = 6\,cm$

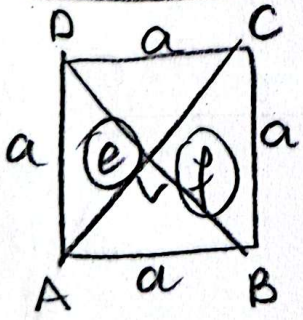
$a = 5\,cm$

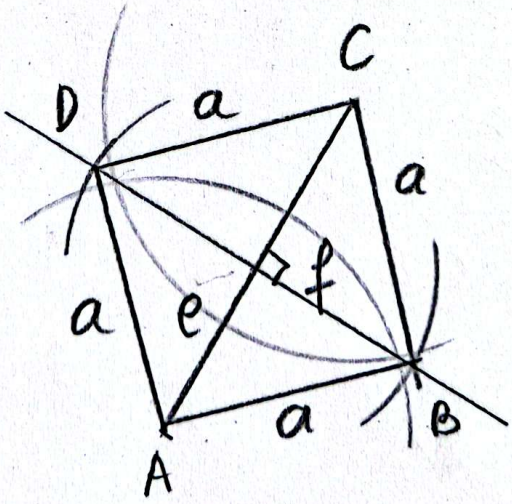




③ . KVADRAT

$f = e = 5\,cm$

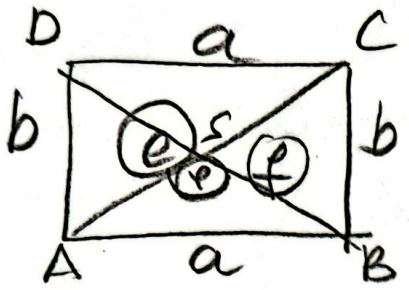


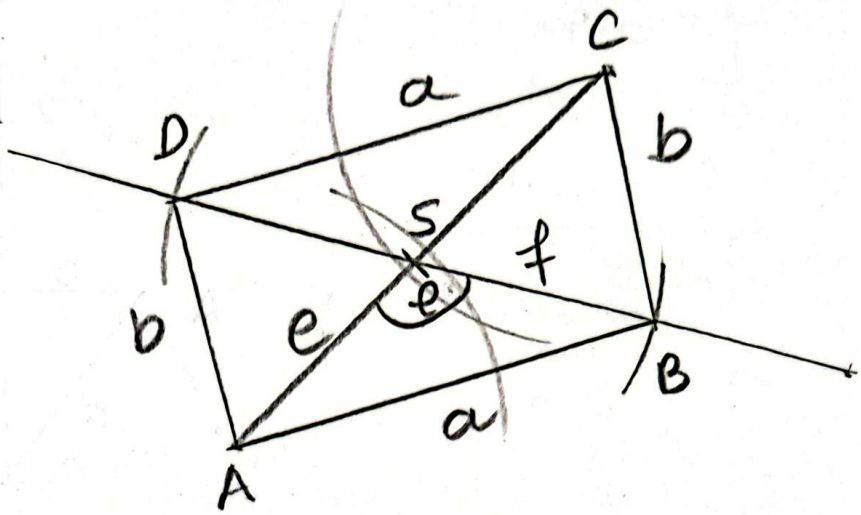


④. PRAVOKOTNIK

$f = e = 7\,cm$

$\sphericalangle ASB = 120^\circ = e$



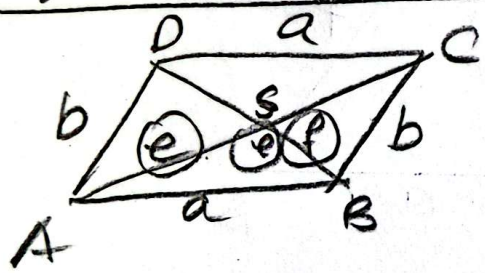


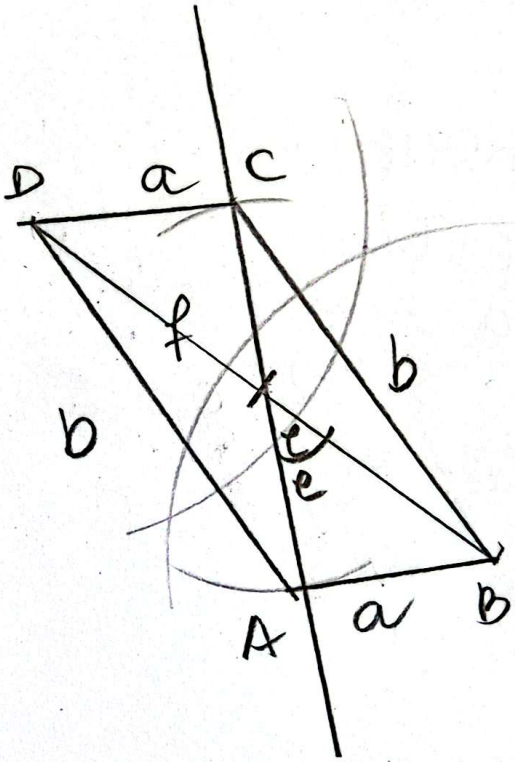
⑤. PARALELOGRAM

$e = 5\,cm$

$f = 8\,cm$

$\sphericalangle ASD = 40^\circ$



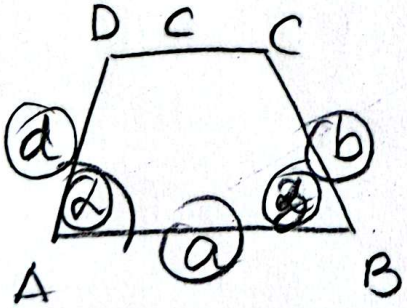


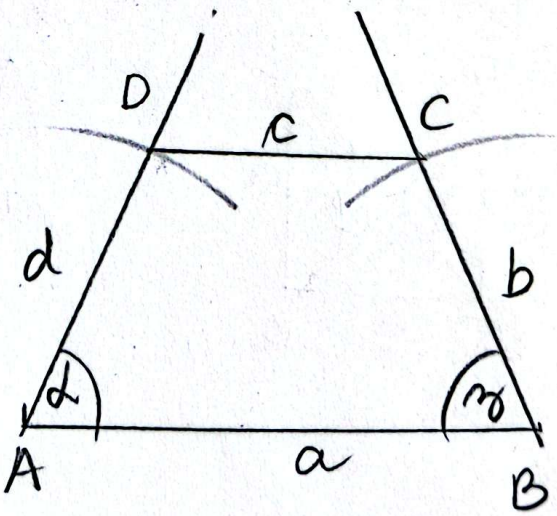
⑥. ENAKOKRAKI TRAPEZ

$a = 7\,cm$

$d = b = 4\,cm$

$\gamma = \alpha = 65^\circ$

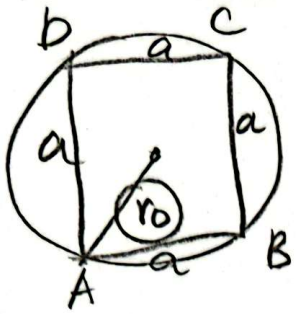


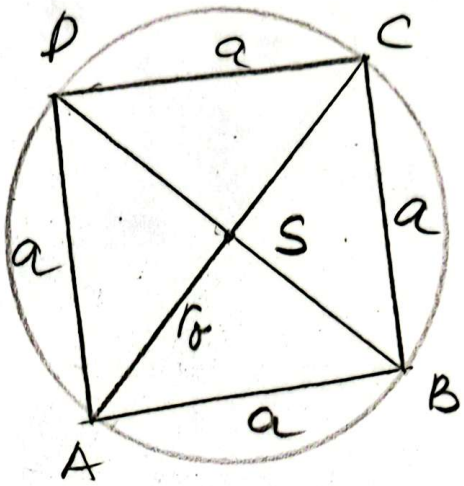


III

(7). KVADRAT

$r_0 = 3\,cm.$

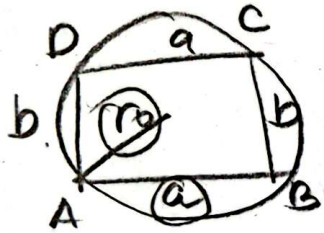


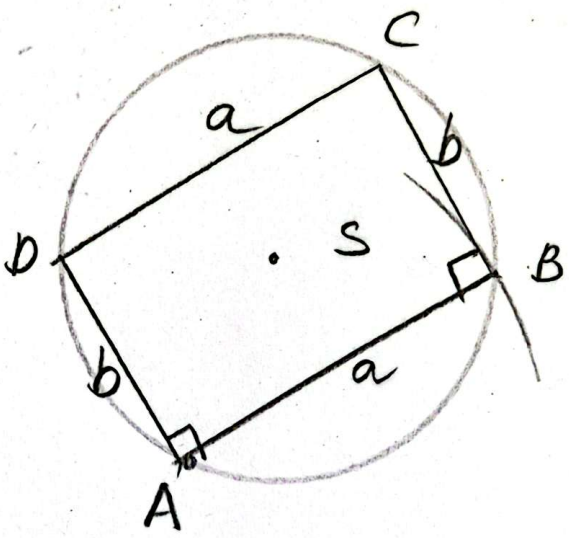


(8). PRAVOKOTNIK

$r_0 = 3\,cm$

$a = 5\,cm$



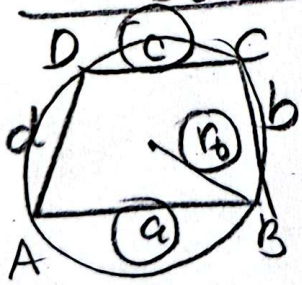


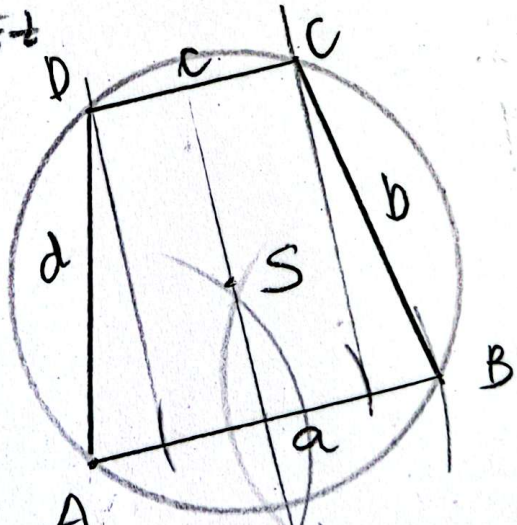
(9). ENAKOKRAKI TRAPEZ

$r_0 = 3\,cm$

$a = 5\,cm$

$c = 3\,cm$





(10). KVADRAT

$r_V = 2{,}5\,cm$