L1 Paralelogramul. Proprietăți

Minitest

1. A; **2.** C; **3.** B.

Exersăm, ne antrenăm, ne dezvoltăm

1. **b)** $AB \| CD$, $AD \| BC$; $AB \equiv CD$, $AD \equiv BC$; $\sphericalangle A \equiv \sphericalangle C$, $\sphericalangle B \equiv \sphericalangle D$;

$\sphericalangle A + \sphericalangle B = 180°$, $\sphericalangle B + \sphericalangle C = 180°$, $\sphericalangle C + \sphericalangle D = 180°$, $\sphericalangle D + \sphericalangle A = 180°$.

2. În paralelogram, laturile opuse sunt congruente, deci $CD = AB = 7$ cm și $AD = BC = 9$cm.

Folosind inegalitatea triunghiului în ΔACB, rezultă $AC > AB + BC = 16$ cm.

4. **a)** $\sphericalangle A = \sphericalangle C = 100°$, $\sphericalangle B = \sphericalangle D = 80°$; **b)** $\sphericalangle D = \sphericalangle F = 108°$, $\sphericalangle E = \sphericalangle G = 72°$;

c) $\sphericalangle A = \sphericalangle C = 120°$, $\sphericalangle B = \sphericalangle D = 60°$.

5. **a)** $AP = CP = 10$ cm; **b)** $DP = 7{,}5$ dm, $BD = 150$ cm.

6. **a)** 2; **b)** 3; **c)** 5; **d)** 4.

7. **a)** C; **b)** A; **c)** C; **d)** D.

8. $\sphericalangle EPF = 88°$.