

Rješenja zadataka 7.2

Zadatak 1. Dan je paralelogram $ABCD$. Neka je točka S sjecište njegovih dijagonala. Izračunaj:

- 1) $\overrightarrow{AD} + \overrightarrow{CD}$;
- 2) $\overrightarrow{AS} + \overrightarrow{BS}$;
- 3) $\overrightarrow{AD} + \overrightarrow{CB}$;
- 4) $\overrightarrow{AB} + \overrightarrow{SD}$;
- 5) $\overrightarrow{AB} + \overrightarrow{BS}$;
- 6) $\overrightarrow{BS} + \overrightarrow{CS}$.

Rješenje.

- 1) $\overrightarrow{AD} + \overrightarrow{CD} = \overrightarrow{BC} + \overrightarrow{CD} = \overrightarrow{BD}$;
- 2) $\overrightarrow{AS} + \overrightarrow{BS} = \overrightarrow{AS} + \overrightarrow{SD} = \overrightarrow{AD}$;
- 3) $\overrightarrow{AD} + \overrightarrow{CB} = \overrightarrow{AD} + \overrightarrow{DA} = \overrightarrow{AD} - \overrightarrow{AD} = \vec{0}$;
- 4) $\overrightarrow{AB} + \overrightarrow{SD} = \overrightarrow{AB} + \overrightarrow{BS} = \overrightarrow{AS}$;
- 5) $\overrightarrow{AB} + \overrightarrow{BS} = \overrightarrow{AS}$;
- 6) $\overrightarrow{BS} + \overrightarrow{CS} = \overrightarrow{BS} + \overrightarrow{SA} = \overrightarrow{BA}$.

