

**Zadatak 12.** Neka su  $A, B, C, D, E, F$  vrhovi pravilnog šesterokuta. Proveri jednakosti:

- 1)  $\overrightarrow{AB} - \overrightarrow{DC} = \overrightarrow{BC}$ ;                      2)  $\overrightarrow{BC} - \overrightarrow{ED} = \overrightarrow{AF}$ ;  
 3)  $\overrightarrow{CD} - \overrightarrow{FE} = \overrightarrow{BA}$ ;                      4)  $\overrightarrow{AF} - \overrightarrow{DE} = \overrightarrow{BC}$ .

*Rješenje.*

$$1) \overrightarrow{AB} - \overrightarrow{DC} = \overrightarrow{AB} - \overrightarrow{SB} = \overrightarrow{AB} + \overrightarrow{BS} = \overrightarrow{AS} = \overrightarrow{BC};$$

$$2) \overrightarrow{BC} - \overrightarrow{ED} = \overrightarrow{BC} - \overrightarrow{SC} = \overrightarrow{BC} + \overrightarrow{CS} = \overrightarrow{BS} = \overrightarrow{AF};$$

$$3) \overrightarrow{CD} - \overrightarrow{FE} = \overrightarrow{CD} - \overrightarrow{SD} = \overrightarrow{CD} + \overrightarrow{DS} = \overrightarrow{CS} = \overrightarrow{BA};$$

$$4) \overrightarrow{AF} - \overrightarrow{DE} = \overrightarrow{AF} - \overrightarrow{SF} = \overrightarrow{AF} + \overrightarrow{FS} = \overrightarrow{AS} = \overrightarrow{BC}.$$

