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- a) $\overrightarrow{BD} + \overrightarrow{DA} = \overrightarrow{BA}$: relation de Charles
- b) $\overrightarrow{BD} + \overrightarrow{AA} = \overrightarrow{BD} + \overrightarrow{O} = \overrightarrow{BD}$
- c) $\overrightarrow{BD} + \overrightarrow{DB} = \overrightarrow{BB}$: relation de Charles
- d) $\overrightarrow{BD} - \overrightarrow{BA} = \overrightarrow{BD} + (-\overrightarrow{BA}) = \overrightarrow{BD} + \overrightarrow{AB}$
 ↳ opposé
- $\overrightarrow{BD} - \overrightarrow{BA} = \overrightarrow{AB} + \overrightarrow{BD} = \overrightarrow{AD}$: relation de Charles
- e) $\overrightarrow{BD} + \overrightarrow{AD} + \overrightarrow{BA} = \overrightarrow{BD} + \overrightarrow{BA} + \overrightarrow{AD} = \overrightarrow{BD} + \overrightarrow{BD}$: relation de Charles
 $\overrightarrow{BD} + \overrightarrow{AD} + \overrightarrow{BA} = 2 \overrightarrow{BD}$
- f) $\overrightarrow{BD} - \overrightarrow{BA} + \overrightarrow{DA} - \overrightarrow{DB} = \overrightarrow{BD} + (-\overrightarrow{BA}) + \overrightarrow{DA} + (-\overrightarrow{DB})$
 ↳ opposé ↳ opposé
- $\overrightarrow{BD} - \overrightarrow{BA} + \overrightarrow{DA} - \overrightarrow{DB} = \overrightarrow{BD} + \overrightarrow{AB} + \overrightarrow{DA} + \overrightarrow{BD}$
- $\overrightarrow{BD} - \overrightarrow{BA} + \overrightarrow{DA} - \overrightarrow{DB} = \overrightarrow{BD} + \overrightarrow{DA} + \overrightarrow{AB} + \overrightarrow{BD}$
- $\overrightarrow{BD} - \overrightarrow{BA} + \overrightarrow{DA} - \overrightarrow{DB} = \overrightarrow{BD}$ par 3 relations de Charles.