/10

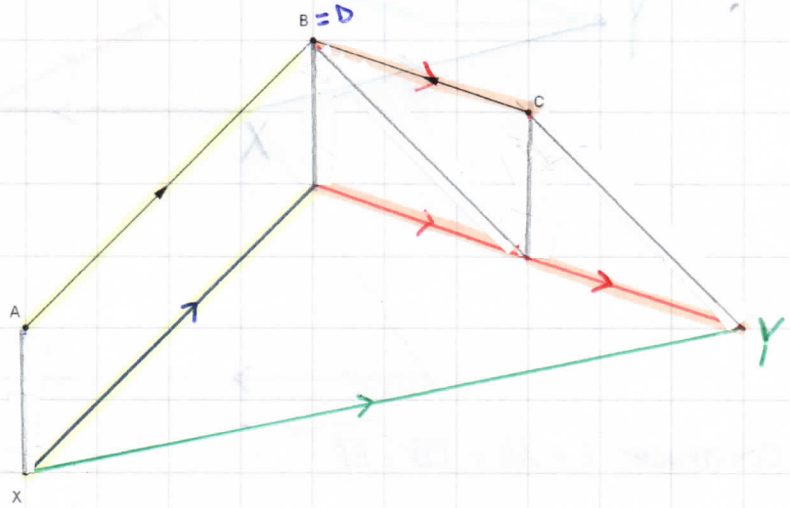
WISKUNDE Vectoren DP__

Naam: _____

Klas: _____ Nummer: _____ Datum: _____ A.M.D.G.

1) Construeer de vector $\overrightarrow{XY} = \overrightarrow{AB} - \overrightarrow{2CD}$

1



Vul in als $|AB| = |BC| = |CD| = |DE| = |EF|$

1

a) $-5\overrightarrow{CD} =$ $\overrightarrow{EA}$ b) $\overrightarrow{AD} =$ $-\frac{3}{2}$. $\overrightarrow{FD}$

2) Vul aan zodat je een ware uitspraak verkrijgt. Gebruik de formule van Chasles-Möbius

2

a) $\overrightarrow{XY} - \overrightarrow{ZY} = -\overrightarrow{ZX}$

$\overrightarrow{XY} - \overrightarrow{ZY} = \overrightarrow{XZ}$

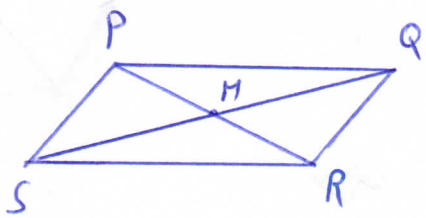
$\overrightarrow{XY} + \overrightarrow{YZ} = \overrightarrow{XZ}$

b) $-\overrightarrow{ZY} - \overrightarrow{YX} + \overrightarrow{WX} = \overrightarrow{WZ}$

$\overrightarrow{YZ} + \overrightarrow{XY} + \overrightarrow{WX}$

$\overrightarrow{WX} + \overrightarrow{XY} + \overrightarrow{YZ}$

3) PQRS is een parallellogram. $PR \cap QS = \{M\}$ Vul aan:



1

a) $-\overrightarrow{QP} - \overrightarrow{SM} = \overrightarrow{PM}$

$= \overrightarrow{PQ} + \overrightarrow{MS}$

$= \overrightarrow{PQ} + \overrightarrow{QM}$

$= \overrightarrow{PM} = \overrightarrow{MR}$

b) $\overrightarrow{QR} + \overrightarrow{SP} = \overrightarrow{0}$

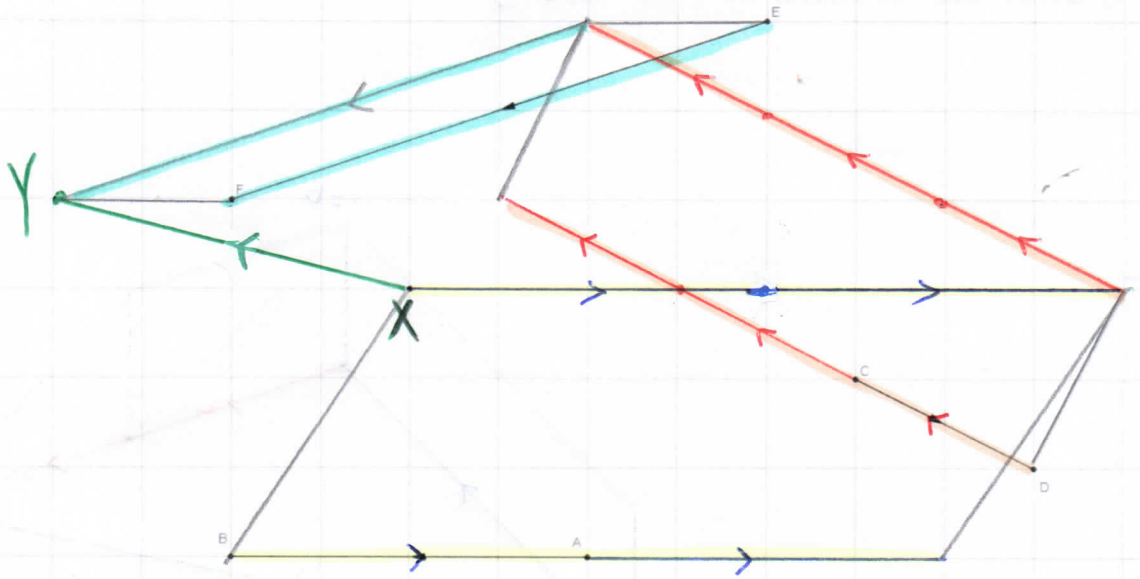
$= \overrightarrow{QR} + \overrightarrow{RQ}$

$= \overrightarrow{QQ}$

$= \overrightarrow{0}$

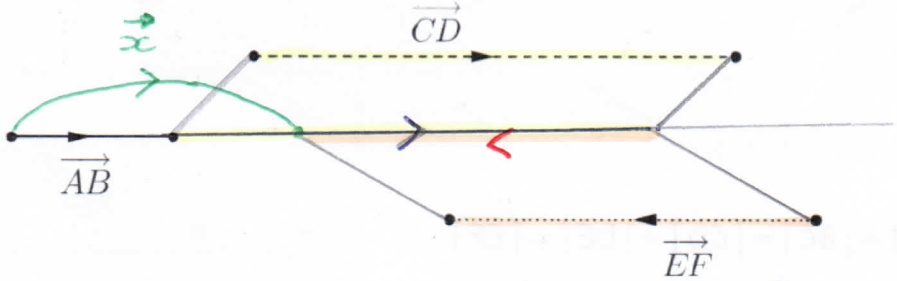
4) Construeer de vector $\overrightarrow{XY} = -2\overrightarrow{AB} - 3\overrightarrow{CD} + \overrightarrow{EF}$

2



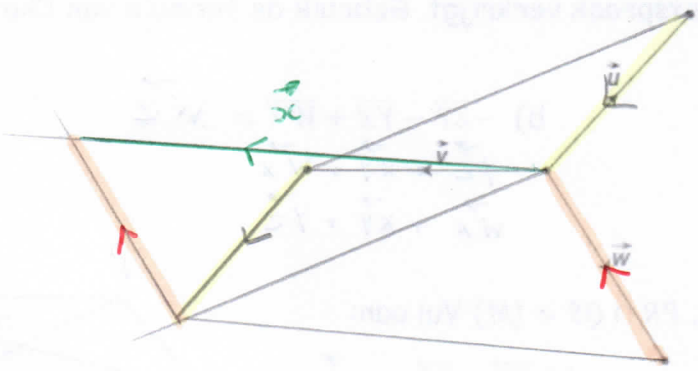
5) Construeer $\vec{x} = \overrightarrow{AB} + \overrightarrow{CD} + \overrightarrow{EF}$

1



6) Construeer $\vec{x}$ als $\vec{x} = \vec{v} - \vec{u} - \vec{w}$

2



Véél succes!