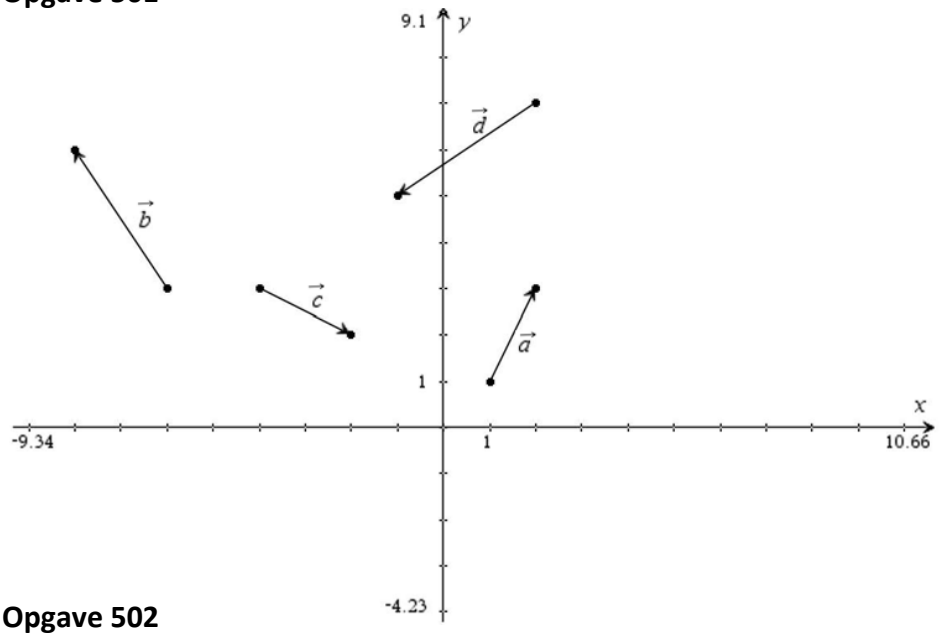
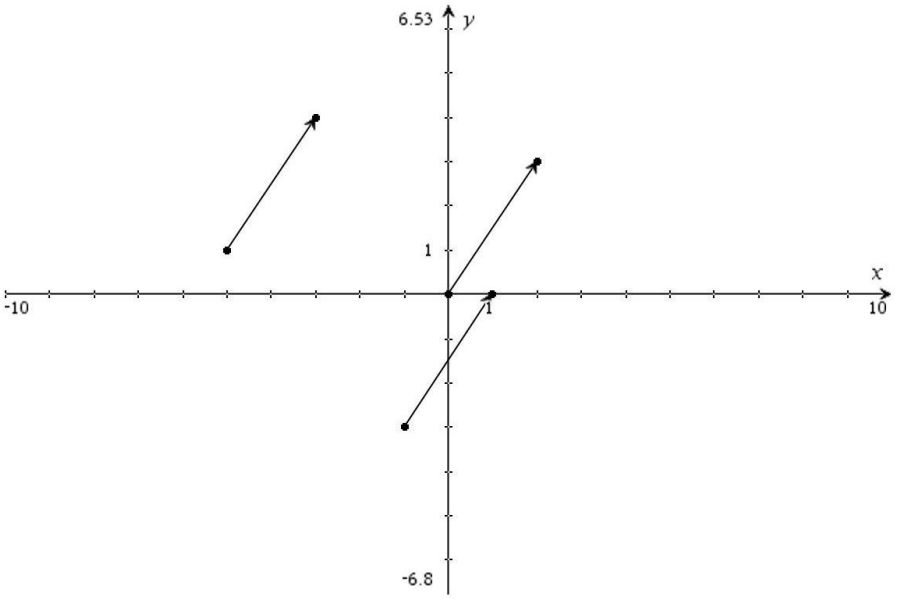
Facit til Kernestof Mat 1 – side 102

Opgave 501

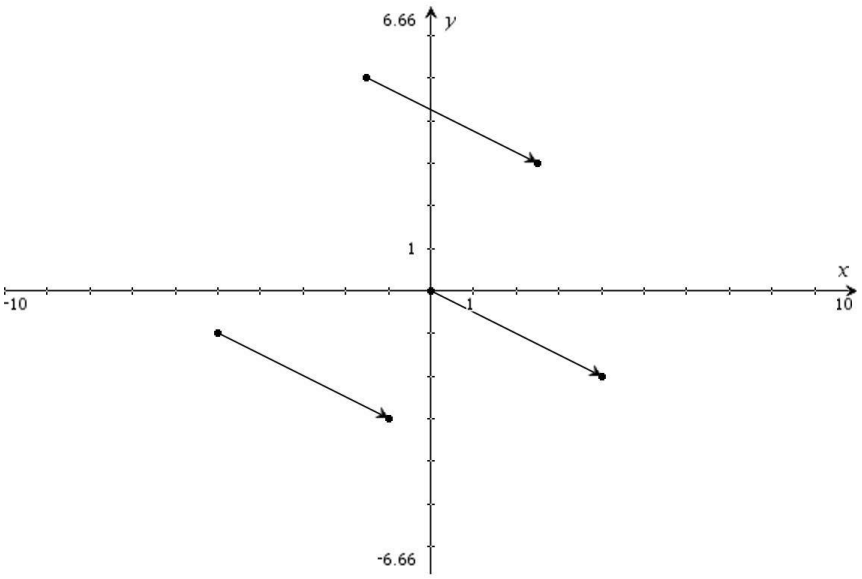


Opgave 502

a)



b)



Opgave 503

$\overrightarrow{a} = \begin{pmatrix} 2 \\ 2 \end{pmatrix}$

$\overrightarrow{b} = \begin{pmatrix} -3 \\ -1 \end{pmatrix}$

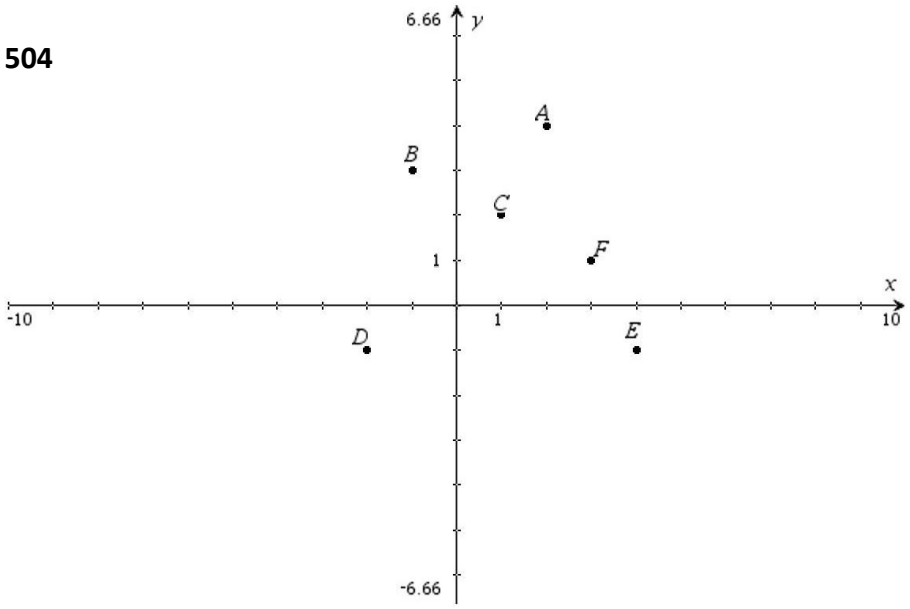
$\overrightarrow{c} = \begin{pmatrix} -1 \\ 3 \end{pmatrix}$

$\overrightarrow{d} = \begin{pmatrix} 0 \\ -2 \end{pmatrix}$

$\overrightarrow{e} = \begin{pmatrix} 2 \\ 1 \end{pmatrix}$

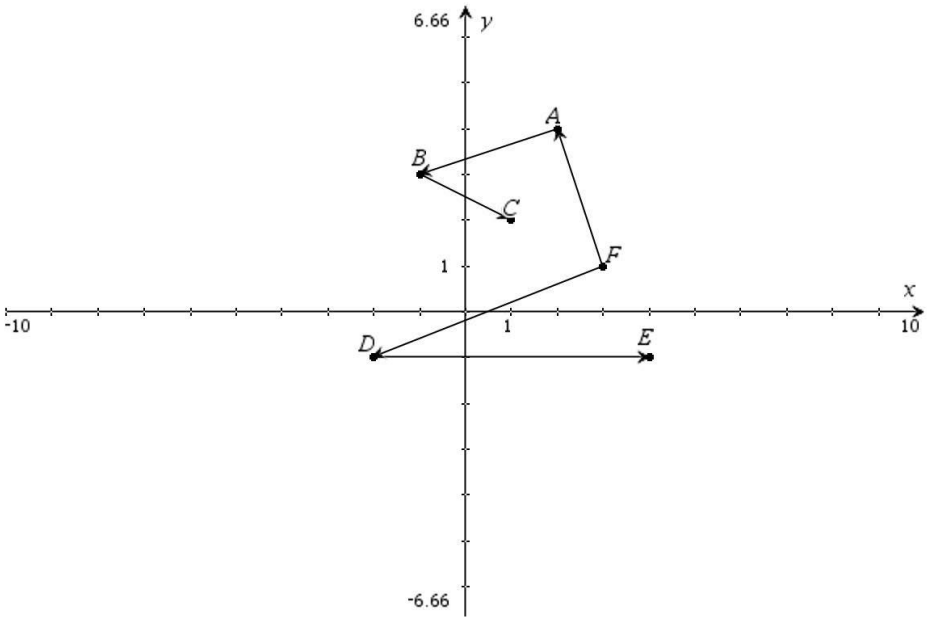
Opgave 504

a)



b) A = (2,4), B= (-1,3), C = (1,2), D = (-2,-1), E = (4,-1) og F = (3,1)

c)



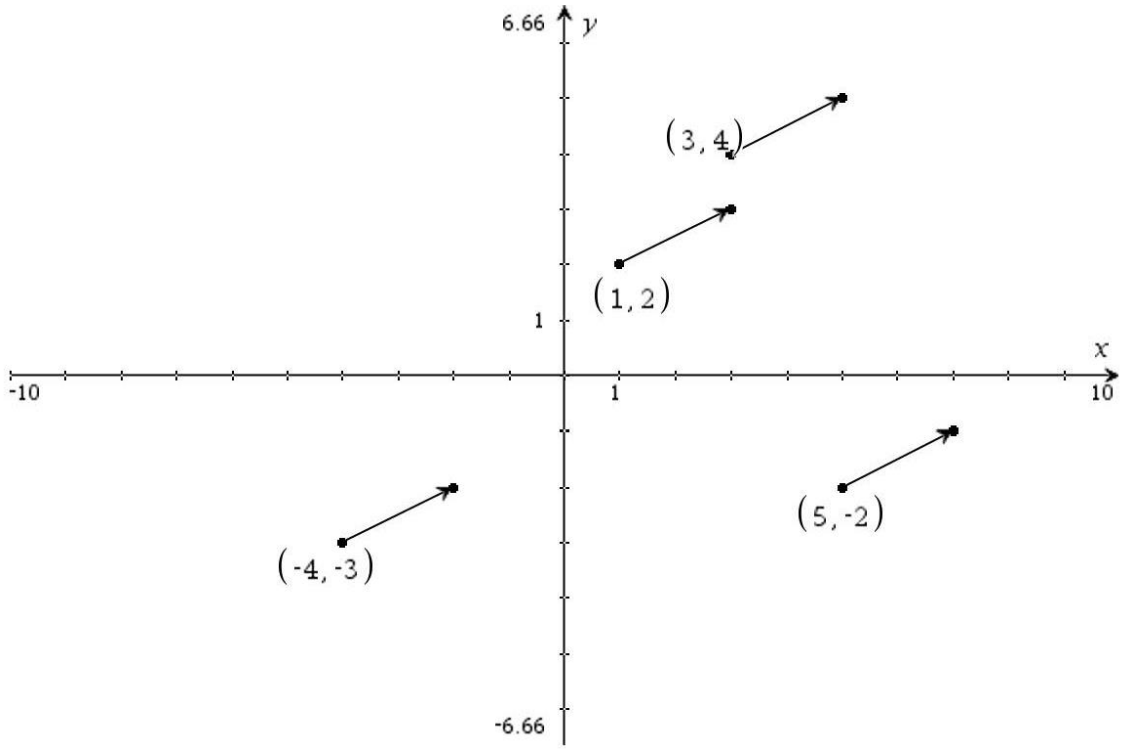
d) $\overrightarrow{AB} = \begin{pmatrix} -3 \\ -1 \end{pmatrix}, \overrightarrow{BC} = \begin{pmatrix} 2 \\ -1 \end{pmatrix}, \overrightarrow{DE} = \begin{pmatrix} 6 \\ 0 \end{pmatrix}, \overrightarrow{FA} = \begin{pmatrix} 1 \\ -3 \end{pmatrix}$ og $\overrightarrow{FD} = \begin{pmatrix} -5 \\ -2 \end{pmatrix}$

Opgave 505

a) $\overrightarrow{AB} = \begin{pmatrix} 2 \\ 3 \end{pmatrix}$, $\overrightarrow{BC} = \begin{pmatrix} 2 \\ -4 \end{pmatrix}$ og $\overrightarrow{CA} = \begin{pmatrix} -4 \\ 1 \end{pmatrix}$,

Opgave 506

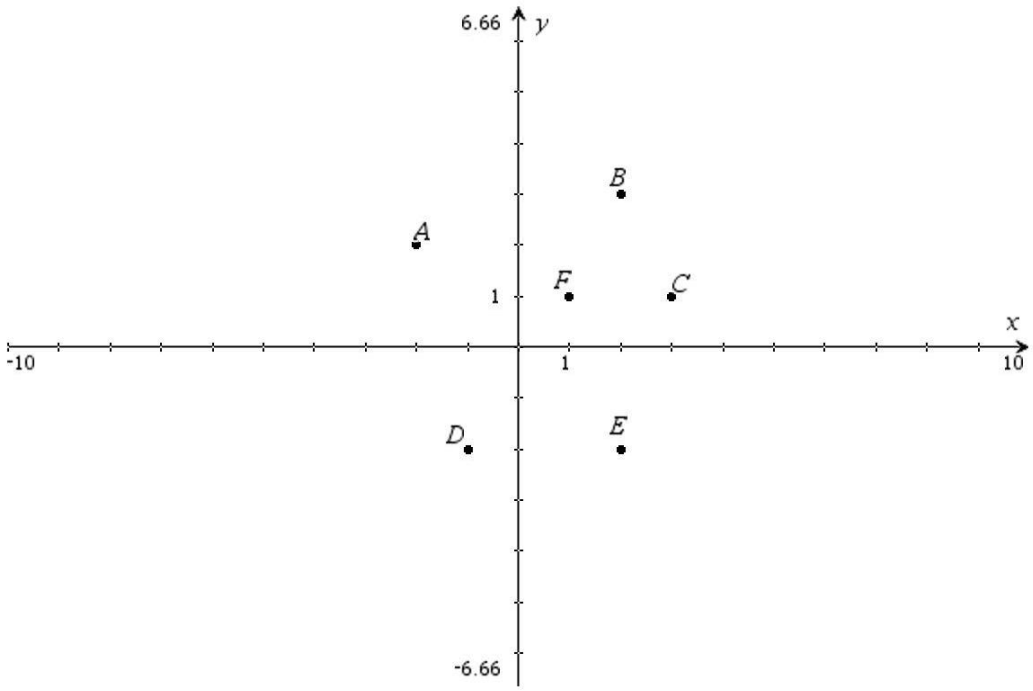
a)



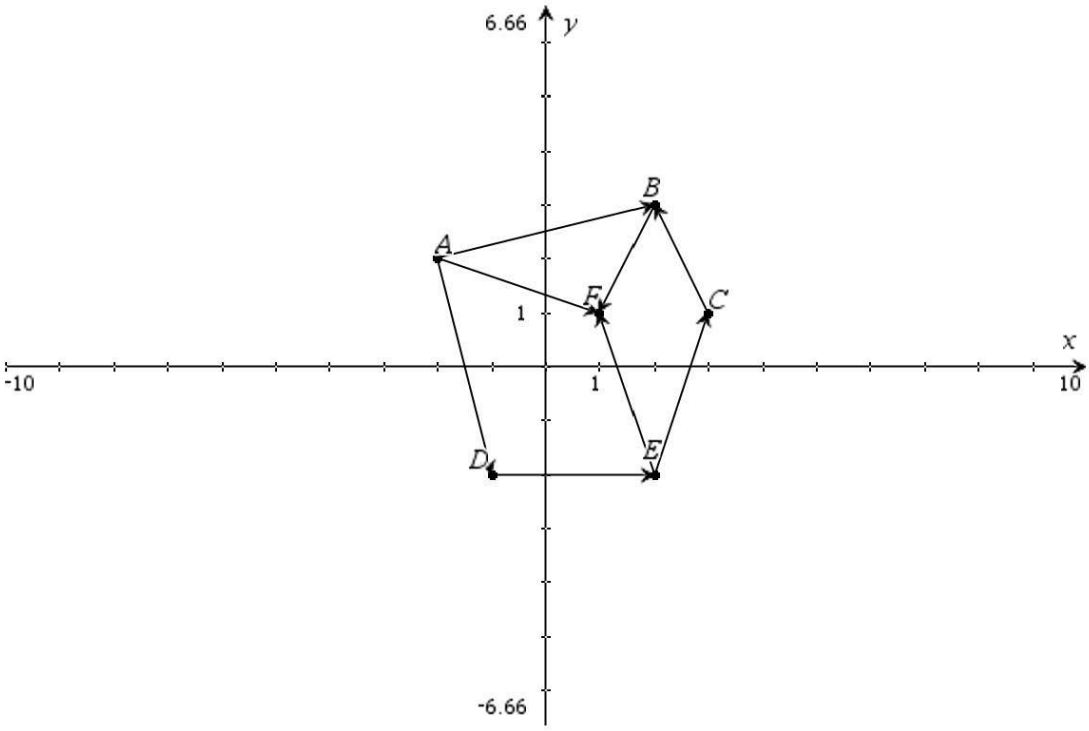
Opgave 507

a) A = (-2,2), B = (2,3), C = (3,1), D = (-1,-2), E = (2,-2), F = (1,1)

b)



c)



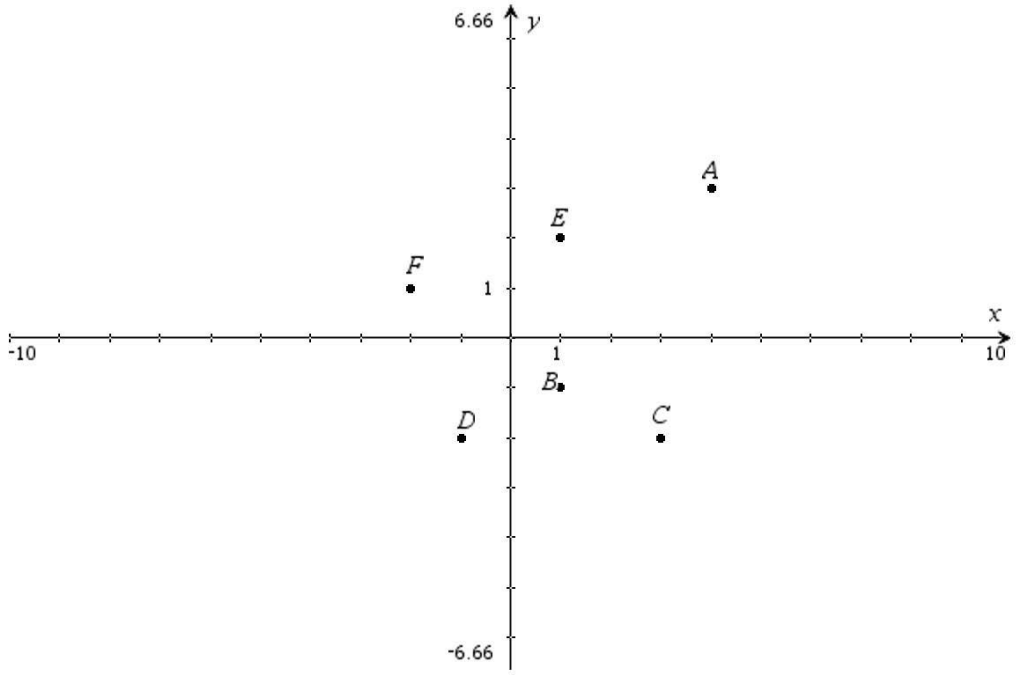
d) $\overrightarrow{AB} = \begin{pmatrix} 4 \\ 1 \end{pmatrix}$, $\overrightarrow{AD} = \begin{pmatrix} 1 \\ -4 \end{pmatrix}$, $\overrightarrow{AF} = \begin{pmatrix} 3 \\ -1 \end{pmatrix}$, $\overrightarrow{BF} = \begin{pmatrix} -1 \\ -2 \end{pmatrix}$, $\overrightarrow{CB} = \begin{pmatrix} -1 \\ 2 \end{pmatrix}$, $\overrightarrow{DE} = \begin{pmatrix} 3 \\ 0 \end{pmatrix}$,

$\overrightarrow{EC} = \begin{pmatrix} 1 \\ 3 \end{pmatrix}$ og $\overrightarrow{EF} = \begin{pmatrix} -1 \\ 3 \end{pmatrix}$

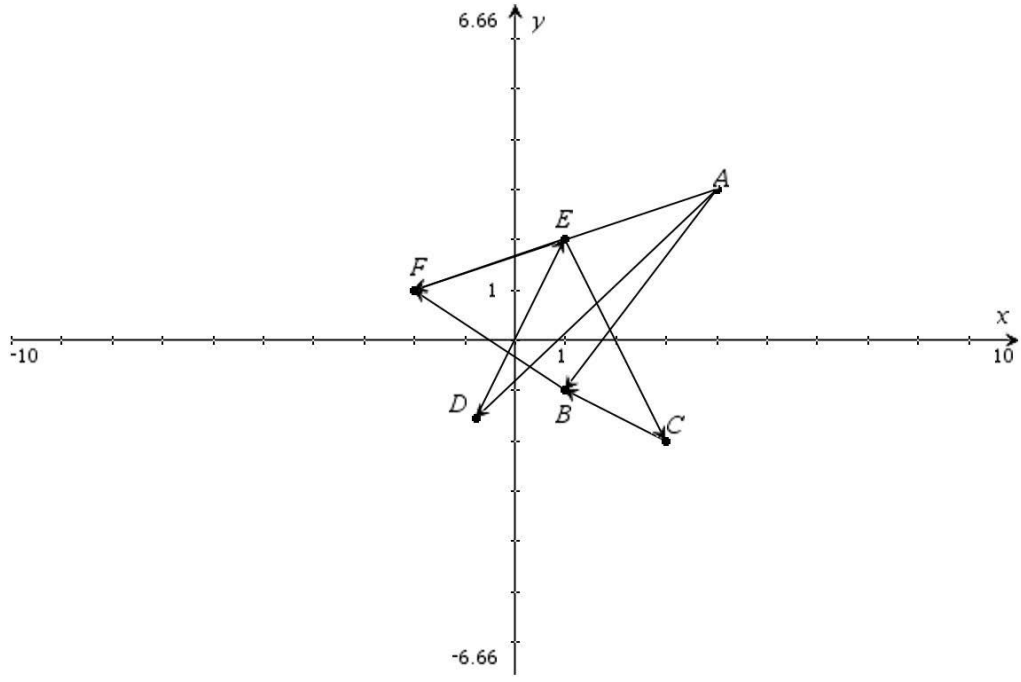
Opgave 508

a) A = (4,3), B = (1,-1), C = (3,-2), D = (-1,-2), E = (1,2) og F = (-2,1)

b)



c)



d) $\overrightarrow{AB} = \binom{-3}{-4}$, $\overrightarrow{AD} = \binom{-5}{-5}$, $\overrightarrow{AF} = \binom{-6}{-2}$, $\overrightarrow{BF} = \binom{-3}{2}$, $\overrightarrow{CB} = \binom{-2}{1}$, $\overrightarrow{DE} = \binom{2}{4}$, $\overrightarrow{EC} = \binom{2}{-4}$, og $\overrightarrow{EF} = \binom{-3}{-1}$,