

## Facit til Kernestof Mat 1 – side 104

### Opgave 516

a)  $s = 6$  og  $t = -2$

b)  $\vec{a} + \vec{b} = \begin{pmatrix} 6 \\ 9 \end{pmatrix}$  og  $\vec{a} + \vec{c} = \begin{pmatrix} 0 \\ 0 \end{pmatrix}$

### Opgave 517

a)  $k = 4$

b) Der er ingen løsning

c)  $K = -\frac{1}{2}$

### Opgave 518

a)  $a_1 = 2$  og  $b_2 = 2$

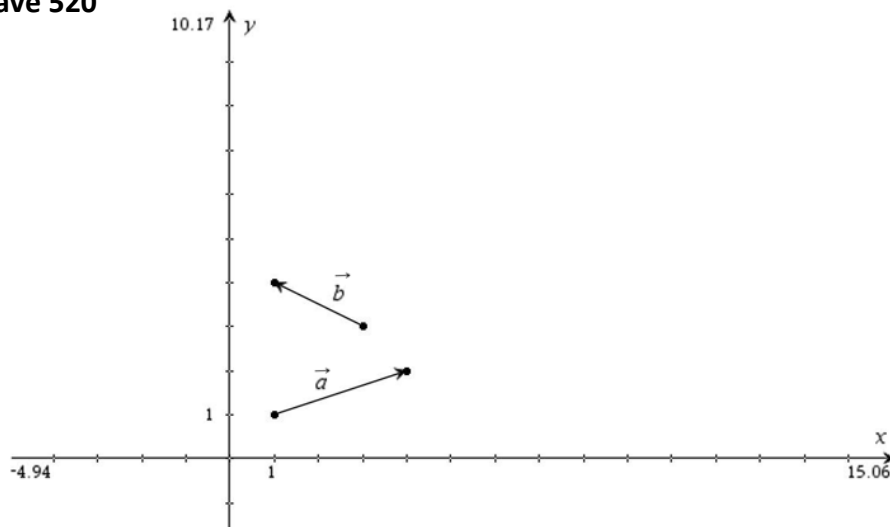
b)  $a_1 = -5$  og  $b_2 = 2$  (NB  $b_2$  skal hedde  $a_2$  – det er en trykfejl i opgaven)

### Opgave 519

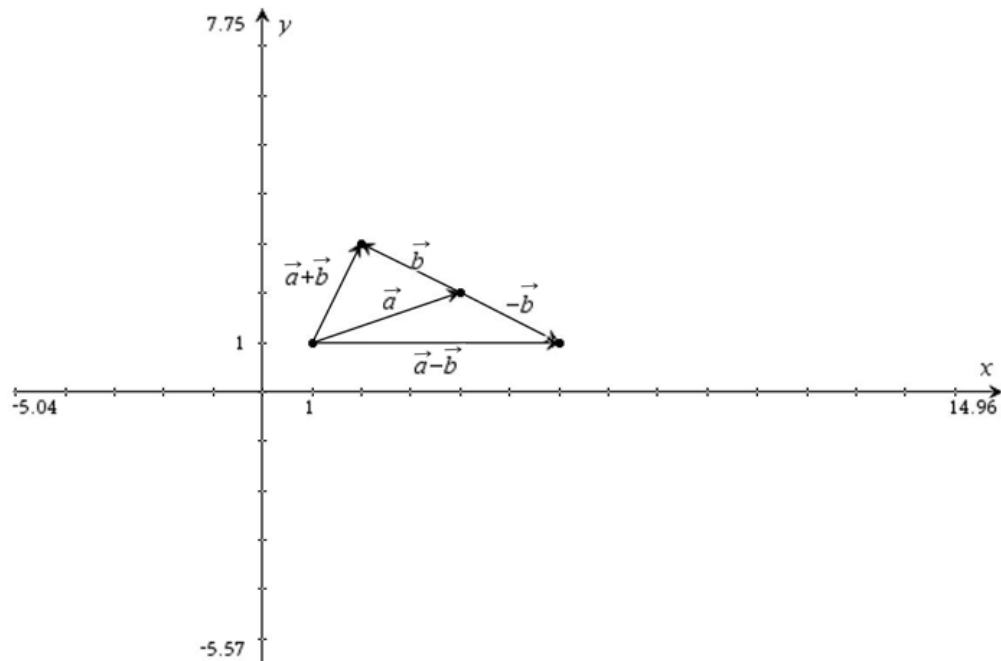
a)  $\vec{u} - \vec{v} = \begin{pmatrix} -25 \\ -35 \end{pmatrix}$ ,  $\vec{u} - \vec{w} = \begin{pmatrix} -20 \\ -23 \end{pmatrix}$  og  $\vec{v} - \vec{w} = \begin{pmatrix} 5 \\ 12 \end{pmatrix}$

### Opgave 520

a)

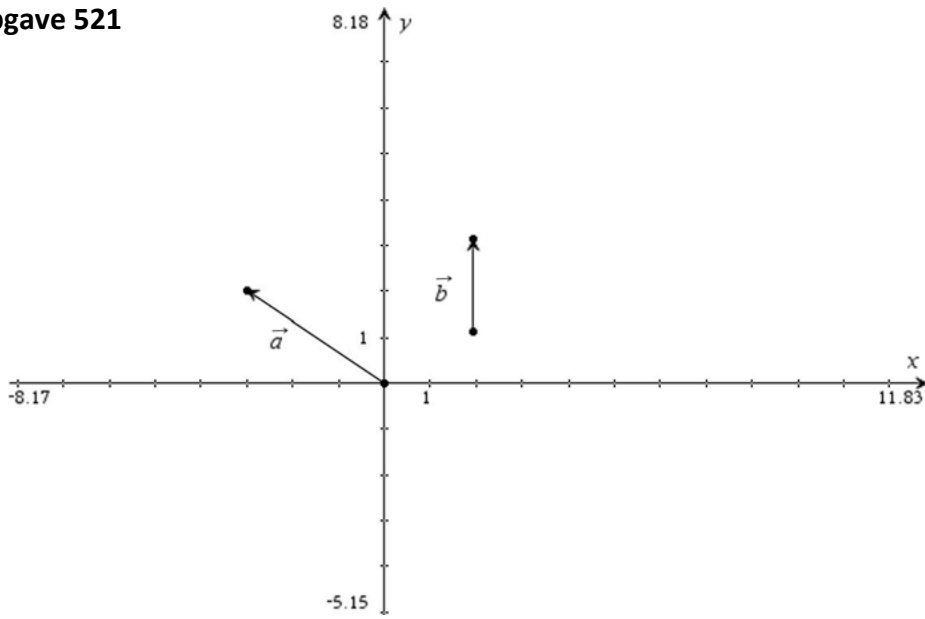


b)

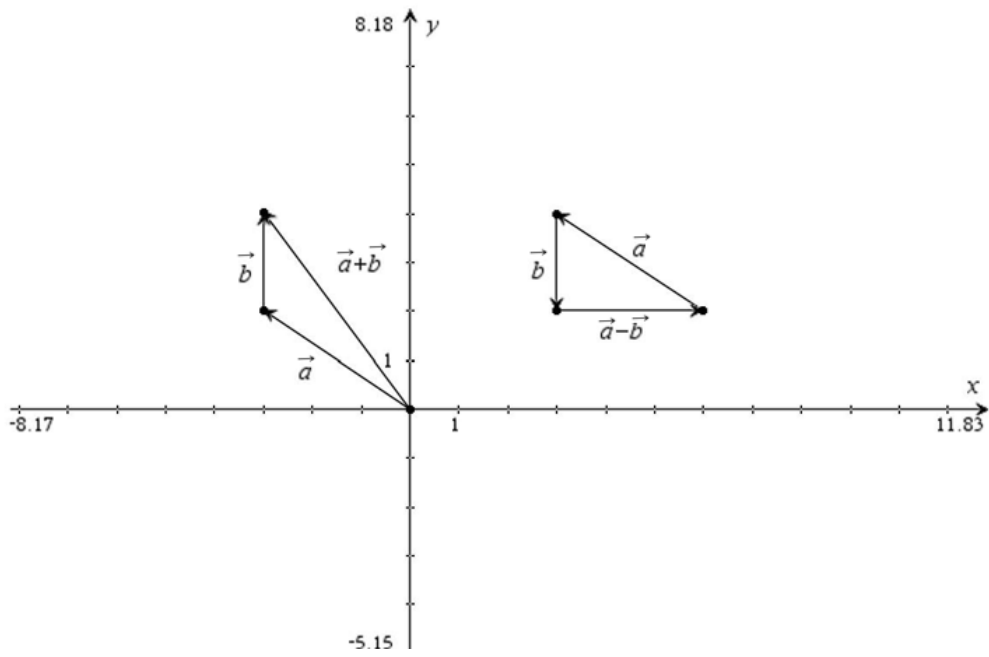


Opgave 521

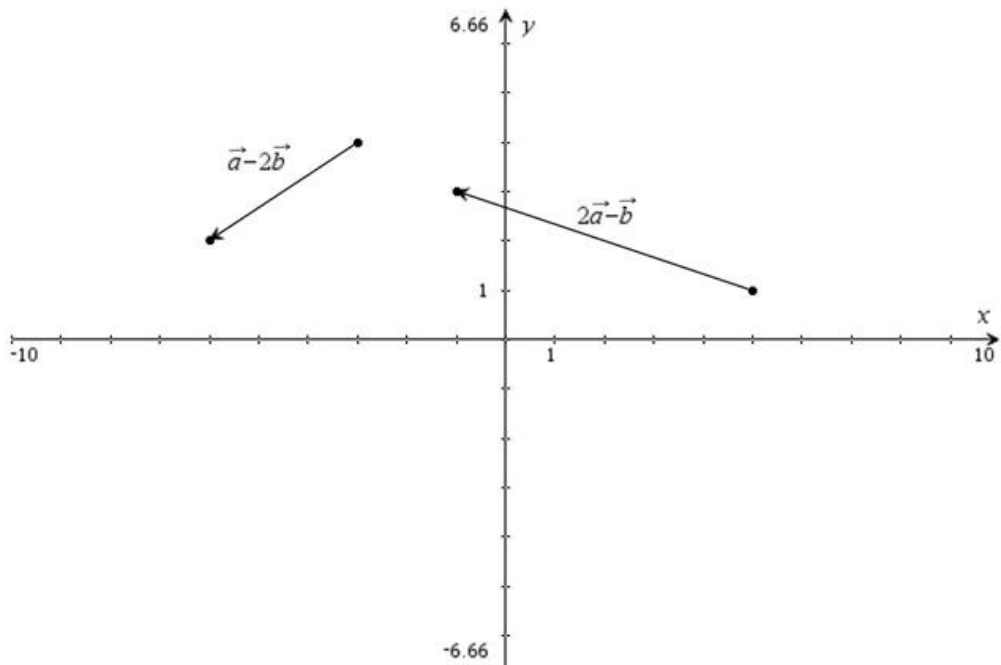
a)



b)



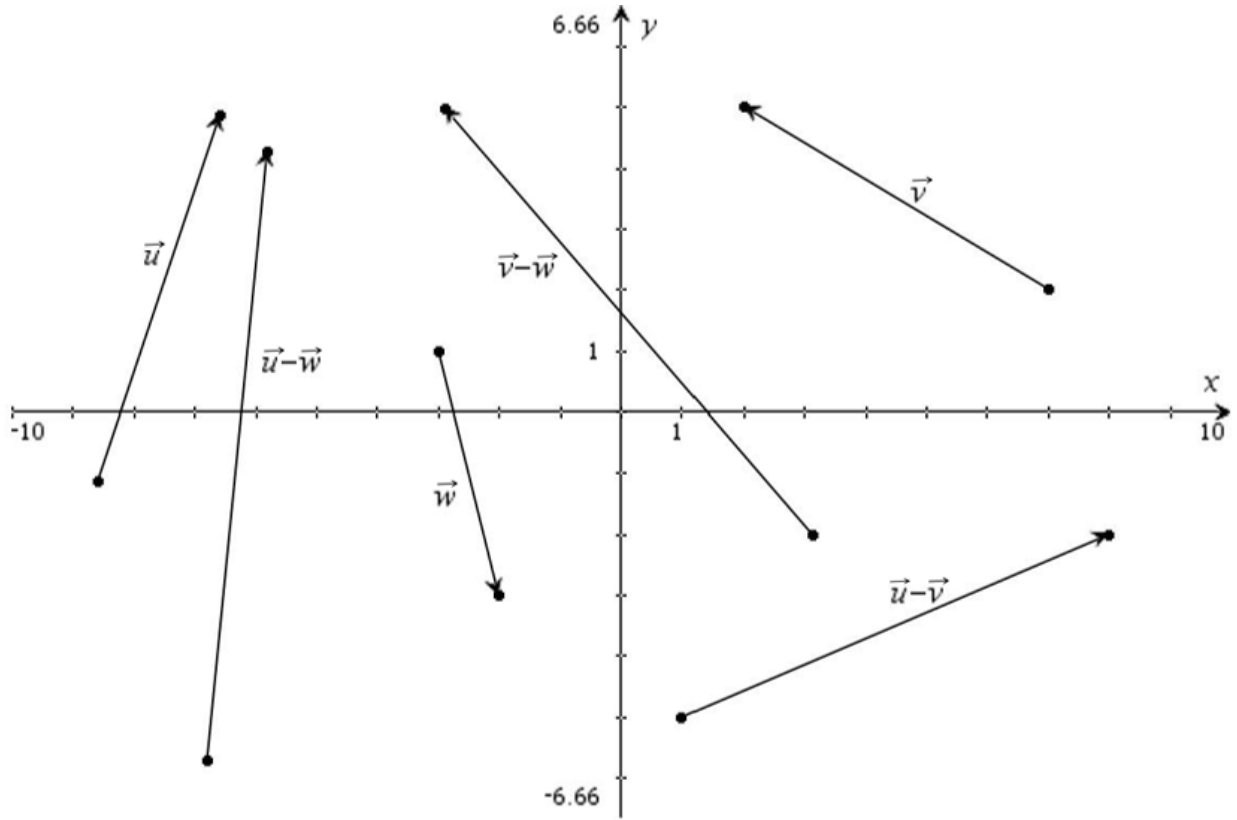
c)



Opgave 522

a)  $\vec{u} - \vec{v} = \begin{pmatrix} 7 \\ 3 \end{pmatrix}$  og  $\vec{u} - \vec{w} = \begin{pmatrix} 1 \\ 10 \end{pmatrix}$

b)



**Opgave 523**

a)  $\vec{a} = \begin{pmatrix} 2 \\ 3 \end{pmatrix}$ ,  $\vec{b} = \begin{pmatrix} -4 \\ -1 \end{pmatrix}$  og  $\vec{c} = \begin{pmatrix} -1 \\ 2 \end{pmatrix}$

b)

