

# Facitliste til træningssider 2

## Opg. 1

- a. 28
- b. 5
- c. 24
- d. -10

## Opg. 2

- a. 21
- b. 20
- c. 1
- d. 2

## Opg. 3

- a. 3
- b. 4
- c. 9
- d. 4

## Opg. 4

- a. 2
- b. 2
- c. 4

**Opg. 5**

a.  $\frac{1}{3}$

b. 1

c.  $\frac{2}{3}$

d.  $\frac{8}{15}$

**Opg. 6**

a.  $\frac{4}{25}$

b. 2

c.  $\frac{1}{27}$

d. 2

**Opg. 7**

a.  $\frac{5}{4}$

b.  $\frac{5}{6}$

c.  $\frac{2}{3}$

d.  $\frac{3}{4}$

**Opg. 8**

a.  $\frac{13}{20}$

b.  $\frac{13}{15}$

c.  $\frac{7}{9}$

d.  $\frac{7}{6}$

**Opg. 9**

a.  $\frac{1}{10}$

b.  $\frac{1}{2}$

c.  $\frac{3}{10}$

d.  $\frac{3}{10}$

**Opg. 10**

a.  $\frac{1}{52}$

b.  $\frac{1}{4}$

c.  $\frac{1}{13}$

d.  $\frac{2}{13}$

**Opg. 11**

a. 2, 3, 4, 5, 6, 7, og 8

b.  $\frac{1}{16}$

c.  $\frac{1}{16}$

d.  $\frac{3}{8}$

e.  $\frac{1}{2}$

**Opg. 12**

a.  $3x - 3$

b.  $-2b - 12$

c.  $8x + 12$

d.  $-6x - 15y$

**Opg. 13**

a.  $7 - x$

b.  $2 - x$

c.  $6 - 3a$

d.  $-x - 16y$

**Opg. 14**

- a.  $11x + 10y$
- b.  $2x^2 + 6x - 9$
- c.  $2 - 2a$
- d.  $4b - 9a - 8$

**Opg. 15**

- a.  $x = 8$
- b.  $x = 3$
- c.  $x = 7$
- d.  $x = -5$

**Opg. 16**

- a.  $x = \frac{11}{2}$
- b.  $x = -3$
- c.  $x = -3$
- d.  $x = 7$

**Opg. 17**

- a.  $x = 7$
- b.  $x = 5$
- c.  $x = 7$
- d.  $x = 5$

**Opg. 18**

a.  $x = 15$

b.  $x = 7$

c.  $x = -6$

d.  $x = 6$

**Opg. 19**

a.  $\begin{pmatrix} 4 \\ 2 \end{pmatrix}$

b.  $\begin{pmatrix} -2 \\ -1 \end{pmatrix}$

c.  $\begin{pmatrix} -6 \\ -3 \end{pmatrix}$

**Opg. 20**

a.  $\begin{pmatrix} -12 \\ 8 \end{pmatrix}$

b.  $\begin{pmatrix} 3 \\ -2 \end{pmatrix}$

c.  $\begin{pmatrix} 9 \\ -6 \end{pmatrix}$

**Opg. 21**

a.  $\begin{pmatrix} 9 \\ 7 \end{pmatrix}$

b.  $\begin{pmatrix} 7 \\ -5 \end{pmatrix}$

c.  $\begin{pmatrix} 18 \\ -6 \end{pmatrix}$

**Opg. 22**

a.  $\begin{pmatrix} 7 \\ 1 \end{pmatrix}$

b.  $\begin{pmatrix} 1 \\ 3 \end{pmatrix}$

c.  $\begin{pmatrix} 5 \\ 5 \end{pmatrix}$

**Opg. 23**

a.  $\begin{pmatrix} 2 \\ 3 \end{pmatrix}$

b.  $\begin{pmatrix} 2 \\ -3 \end{pmatrix}$

c.  $\begin{pmatrix} 8 \\ -6 \end{pmatrix}$

Opg. 24

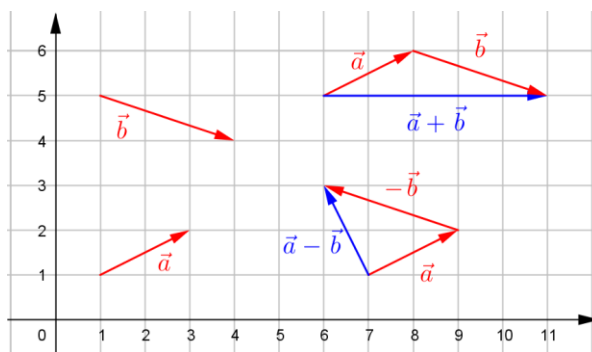
a.  $\begin{pmatrix} 2 \\ 9 \end{pmatrix}$

b.  $\begin{pmatrix} -2 \\ -12 \end{pmatrix}$

c.  $\begin{pmatrix} -1 \\ 7 \end{pmatrix}$

Opg. 25

a.



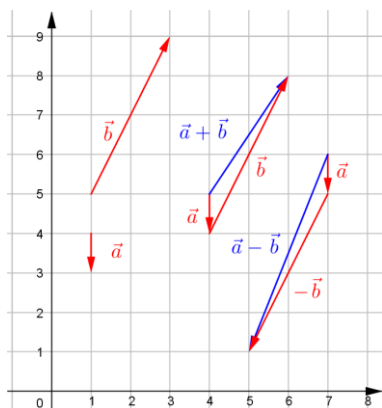
b.  $\vec{a} + \vec{b} = \begin{pmatrix} 2+3 \\ 1+(-1) \end{pmatrix} = \begin{pmatrix} 6 \\ 0 \end{pmatrix}$

c.  $\vec{a} - \vec{b} = \begin{pmatrix} 2-3 \\ 1-(-1) \end{pmatrix} = \begin{pmatrix} -1 \\ 2 \end{pmatrix}$



Opg. 26

a.

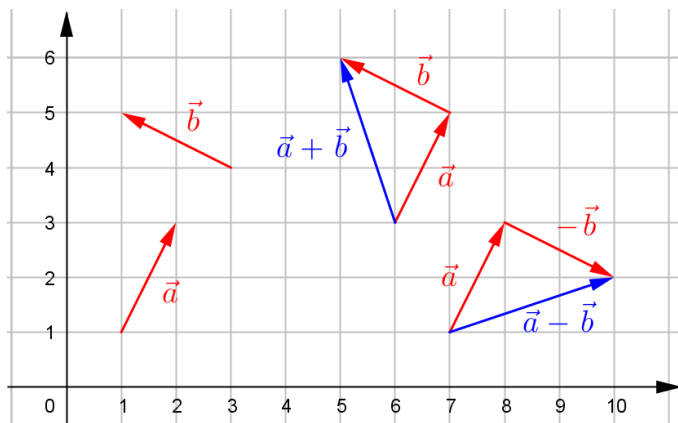


b.  $\vec{a} + \vec{b} = \begin{pmatrix} 0+2 \\ -1+4 \end{pmatrix} = \begin{pmatrix} 2 \\ 3 \end{pmatrix}$

c.  $\vec{a} - \vec{b} = \begin{pmatrix} 0-2 \\ -1-4 \end{pmatrix} = \begin{pmatrix} -2 \\ -5 \end{pmatrix}$

Opg. 27

a.

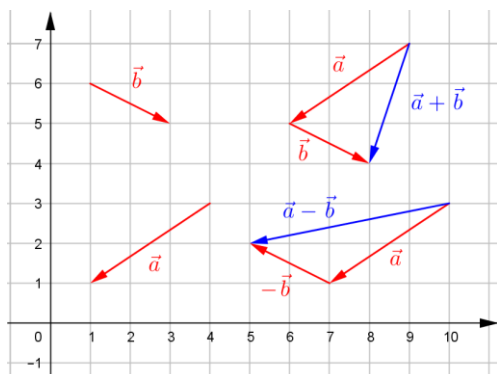


b.  $\vec{a} + \vec{b} = \begin{pmatrix} 1+(-2) \\ 2+1 \end{pmatrix} = \begin{pmatrix} -1 \\ 3 \end{pmatrix}$

c.  $\vec{a} - \vec{b} = \begin{pmatrix} 1-(-2) \\ 2-1 \end{pmatrix} = \begin{pmatrix} 3 \\ 1 \end{pmatrix}$

Opg. 28

a.

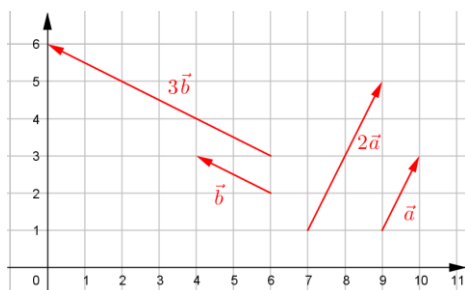


b. 
$$\vec{a} + \vec{b} = \begin{pmatrix} -3+2 \\ -2+(-1) \end{pmatrix} = \begin{pmatrix} -1 \\ -3 \end{pmatrix}$$

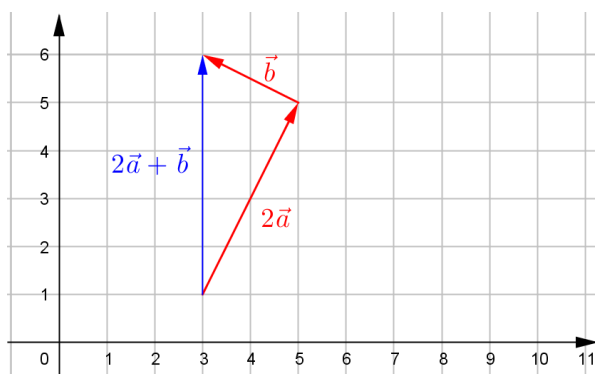
c. 
$$\vec{a} - \vec{b} = \begin{pmatrix} -3-2 \\ -2-(-1) \end{pmatrix} = \begin{pmatrix} -5 \\ -1 \end{pmatrix}$$

Opg. 29

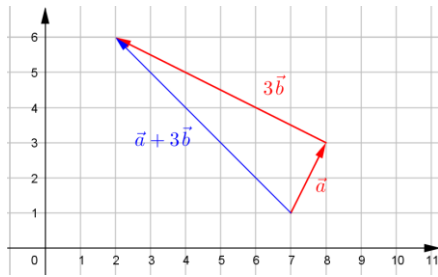
a.



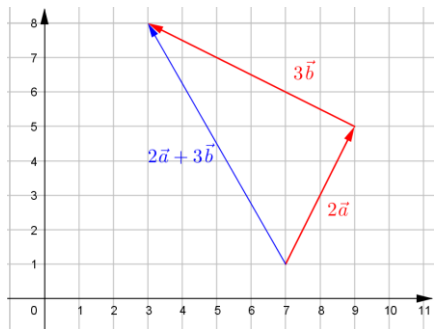
b.



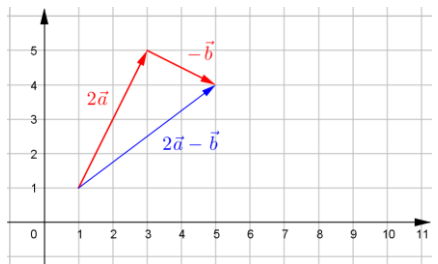
c.



d.



e.



f.

