Kafli 1.1. Vigras

$$\overline{AB} = \begin{pmatrix} d_x \\ d_y \end{pmatrix} = \begin{pmatrix} x_x - x_1 \\ y_x - y_1 \end{pmatrix}$$

Reikur AB
$$AB = \begin{pmatrix} 3-1 \\ 2-4 \end{pmatrix} = \begin{pmatrix} 2 \\ -2 \end{pmatrix} AB = \begin{pmatrix} 2-6 \\ -3-2 \end{pmatrix} = \begin{pmatrix} -4 \\ -5 \end{pmatrix}$$

2) a)
$$A = (3,-1), B = (4,3)$$
 b) $A = (-2,-1), B = (-5,3)$
 $AB = (4-3) = AB = (4)$ $AB = (-2,-1) = (-3,3)$

3)
$$A = (-3, -4), B = (1, -4), B = (1, -5), B = (5, 1)$$

$$AB = (1-(-3)) = (4)$$

$$AB = (5-1) = (4)$$

$$(-4-(4)) = (6)$$

$$4J_{aJ}A = (-1, 4), B = (2, -4)$$
 b) $A = (3, 2), B = (3, 5)$
 $AB = \begin{pmatrix} 2 & -4 & 1 \\ -4 & 4 \end{pmatrix} = \begin{pmatrix} -8 & 1 \\ -8 & 1 \end{pmatrix}$ $AB = \begin{pmatrix} 3 & -3 \\ 5 & -2 \end{pmatrix} = \begin{pmatrix} 0 \\ 3 \end{pmatrix}$

$$5/0)A=(3,-3),B=(0,-1)$$
 b) $A=(-6,2),B=(-2,8),$
 $AB=\begin{pmatrix} 0-3\\ -1-(-3) \end{pmatrix}=\begin{pmatrix} -3\\ 2 \end{pmatrix}$ $AB=\begin{pmatrix} -2-(-6)\\ 8-2 \end{pmatrix}=\begin{pmatrix} 4\\ 6 \end{pmatrix}$

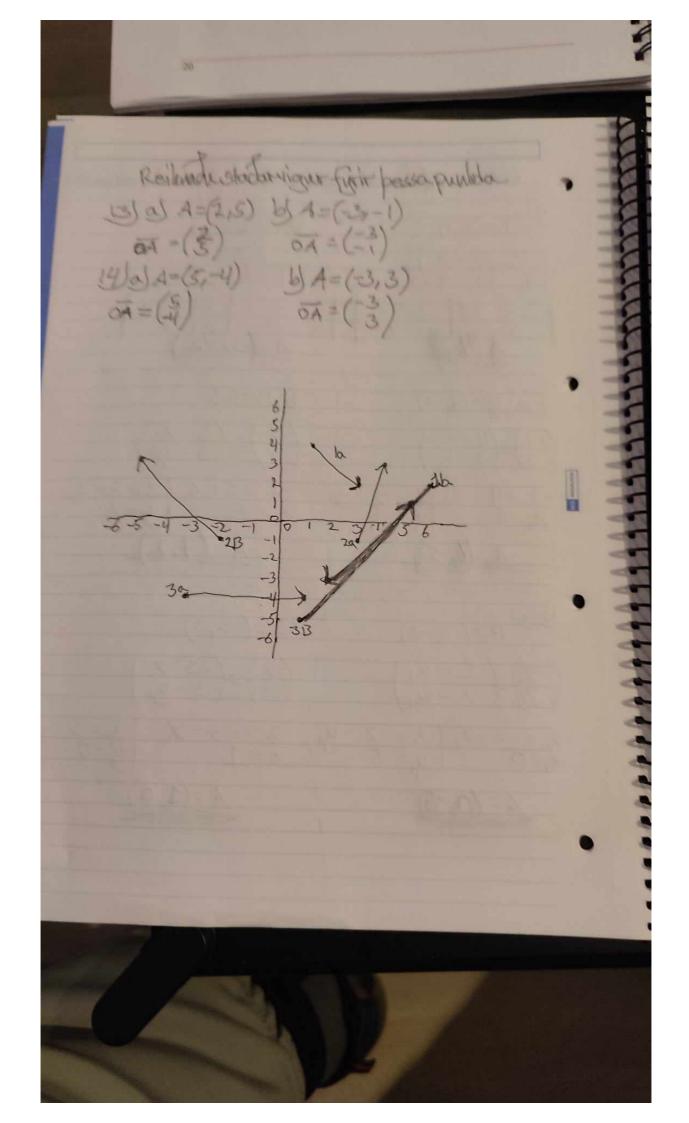
Reduced endopunted signatures $a = \left(\frac{1}{3}\right)$ of apphalopunted response $A = \left(\frac{1}{3}\right)$ of apphalopunted response $A = \left(\frac{1}{3}\right)$ of apphalopunted response $A = \left(\frac{1}{3}\right)$ of $A = \left(\frac{1}{3}$

25x-283=y-1 -2=x+5 3=y-1

9 a) A = (-2, -2) b) A = (-3, 3) $-2 = (x_2 - (-2))$ $-2 = (x_2 - (-3))$ $3 = (y_2 - (-2))$ $3 = (y_2 - 3)$ -2 = x + 2 3 = y + 2 -2 = x + 3 3 = y - 3 -4 = x 1 = y 5 = x 6 = y3 = -4, 1 3 = -5, 6

Reiterich uphoffmild viguesins
$$a = \begin{pmatrix} 2 \\ 3 \end{pmatrix}$$
 feudapmiliur et:

10 $B = (2,1)$
 $\begin{vmatrix} -2 \\ 1-4 \end{vmatrix}$
 $\begin{vmatrix} -2 \\ 1-4 \end{vmatrix}$
 $\begin{vmatrix} -2 \\ 3 \end{vmatrix} = \begin{pmatrix} -5-x \\ 3-y \end{vmatrix}$
 $\begin{vmatrix} -2 \\ 3-x \end{vmatrix}$



1.3 Sampregning Vigra

a+b=(a+b) a+b=c Nillvigur AA(8)

teggingglan (a+b) +c = a+(b+c)

innshotsneglan AB+BC = AC

thing 1.23

Ja=(\$) b=(=2)

a+b=(6+(-2)) 1+4) a+b=(4)

2) a=(-1), b=(-2)

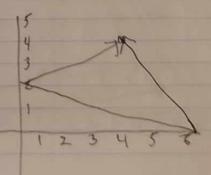
a+b=(-3+(-2)

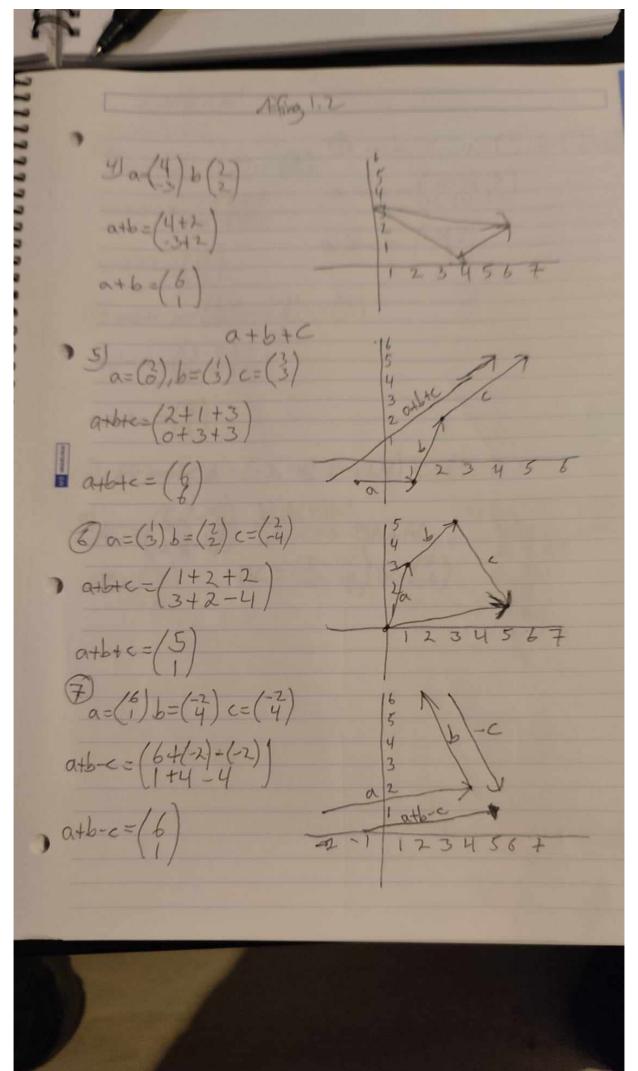
a+b=(-5) -3-2-1

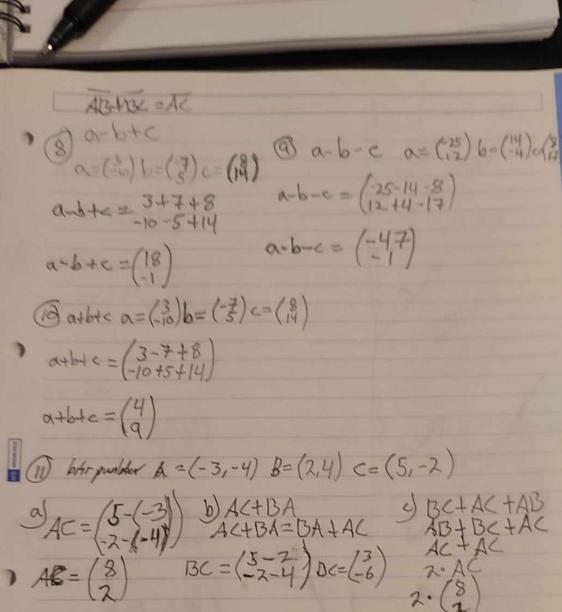
3 0=(6) 6=(-2)

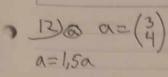
atb=(6+(-2))

) a+b=(4)









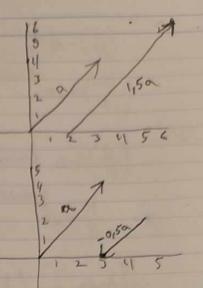
$$a = -2 \cdot \begin{pmatrix} 3 \\ 4 \end{pmatrix} = \begin{pmatrix} -6 \\ -8 \end{pmatrix}$$

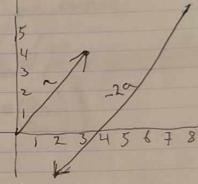
$$a = \begin{pmatrix} -2 \\ 5 \end{pmatrix}$$

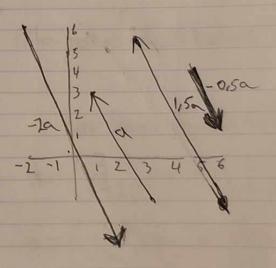
$$a = 1/5 \alpha$$

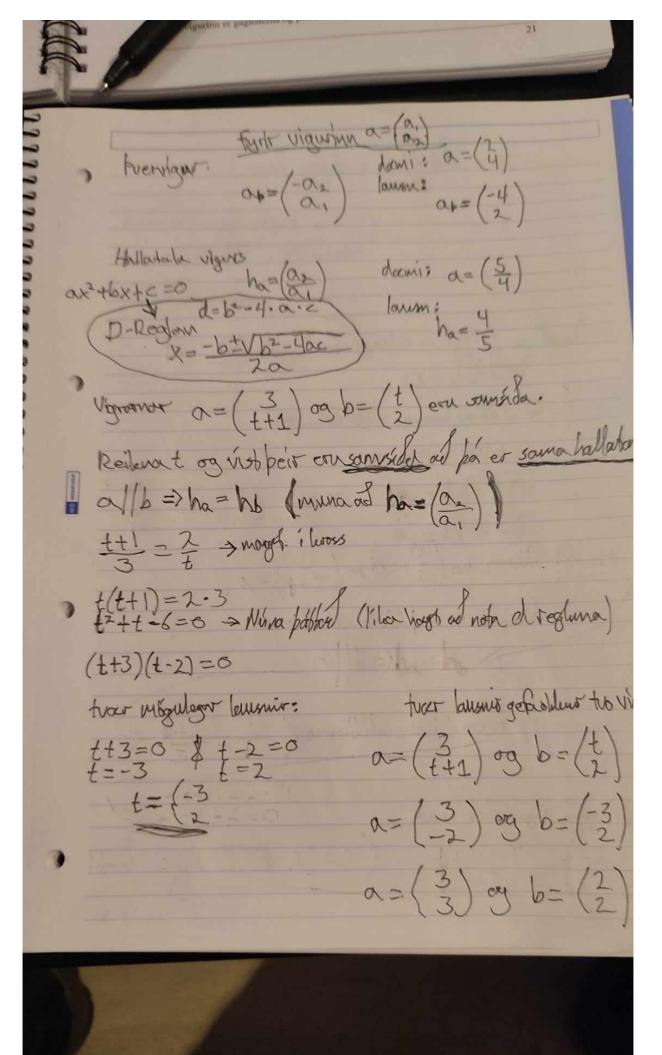
$$\alpha = 1.5 \cdot \left(\frac{-2}{5}\right) = \left(\frac{-3}{7.5}\right)$$

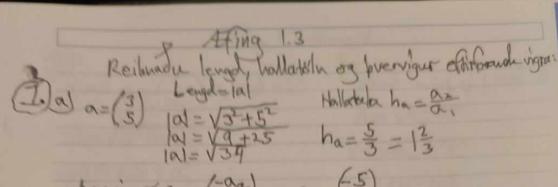
$$02-0,5-\left(-2\right)=\left(-2,5\right)$$











Averygr
$$a_{1} = \begin{pmatrix} -a_{2} \\ a_{1} \end{pmatrix} = a_{2} = \begin{pmatrix} -5 \\ 3 \end{pmatrix}$$

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

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

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

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

$$b = 3 = -\frac{1}{2}$$

$$b = -\frac{1}{2}$$

$$c = (-\frac{4}{10}) \quad |c| = \sqrt{(-4)^2 + (-10)^2} \quad c_1 = (-\frac{10}{-4})$$

$$|c| = \sqrt{16 + 108} \quad c_1 = (-\frac{10}{-4})$$

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$$a_{1} = \begin{pmatrix} -12 \\ -5 \end{pmatrix}$$

$$|a_{1}| = \sqrt{(-12)^{2} + (-5)^{2}}$$

$$a_{2} = \begin{pmatrix} 5 \\ -12 \end{pmatrix}$$

$$|a_{1}| = \sqrt{144 + 25}$$

$$|a_{1}| = \sqrt{169}$$

$$|a_{1}| = \sqrt{13}$$

$$c = \frac{(-4)}{(-10)} \quad |c| = \sqrt{(-4)^{2} + (-10)^{2}} \quad c_{+} = \frac{(-10)}{(-4)}$$

$$h_{c} = \frac{-10}{4} = 2.5 \quad |c| = \sqrt{16} + 1008$$

$$h_{c} = \frac{-10}{4} = 2.5 \quad |c| = \sqrt{116}$$

$$|c| = 2\sqrt{29}$$

$$h_{c} = \frac{-5}{4} = \frac{5}{12} \quad |a| = \sqrt{(-12)^{2} + (-5)^{2}} \quad a_{+} = (-5)$$

$$h_{b} = \frac{-5}{12} = \frac{5}{12} \quad |a| = \sqrt{144} + 2.5$$

$$h_{b} = \frac{-5}{12} = \frac{5}{12} \quad |a| = \sqrt{169}$$

$$|b| = \sqrt{8}$$

$$|b| = \sqrt{8}$$

$$|b| = \sqrt{8}$$

$$|b| = \sqrt{64 + 3}$$

$$c = \begin{pmatrix} 13 \\ 12 \end{pmatrix} | c| = \sqrt{13^2 + 12^2}$$

$$h_c = \frac{12}{13} | c| = \sqrt{169 + 144}$$

$$| c| = \sqrt{313}$$

