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42IN13SAa

lineaire algebra

Week 1

Inhoudsopgave

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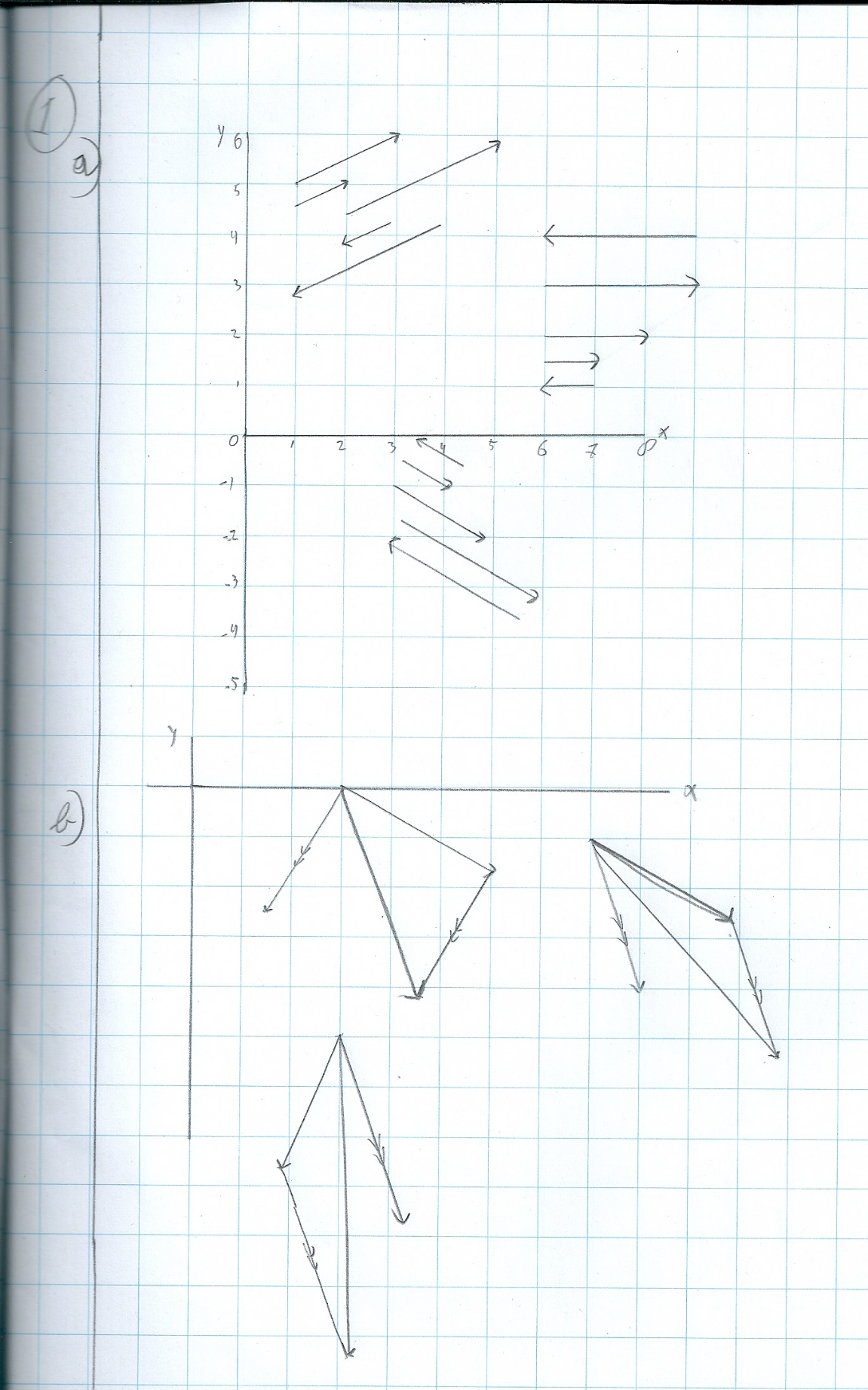
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# Lineaire algebra week 1

## Opdracht 1:(a & b)



## Opdracht 2a:

public static void from1To2(double x1, double y1, double x2, double y2, out double a, out double b)

{

double dx = x2 - x1;

double dy = y2 - y1;

if (dx == 0)

{

throw new Exception("divide by 0");

}

//y = ax + b;

b = dy / dx;

a = y1 - b \* x1;

}

public static void from2To3(double a, double b, out double[] steun, out double[] richting)

{

steun = new double[2];

richting = new double[2];

steun[0] = 0;

steun[1] = a;

richting[0] = 1;

richting[1] = b;

}

public static void from3To1(double[] steun, double[] richting, out double x1, out double y1, out double x2, out double y2)

{

x1 = steun[0];

y1 = steun[1];

x2 = x1 + richting[0];

y2 = y1 + richting[1];

}

## Opdracht 2b:

|  |  |  |
| --- | --- | --- |
| **1** | **2** | **3** |
| A(6,3) en B(2,8) | y= -1.25x+10.5 |  |
| (0,6.34) en (1,12.68) | y= 6.34 x + 6.34 |  |
| (3,3) en (4,4) | y= x |  |
| C(0.34, 0.62) en D(0.34,1.62) | Verticale lijn op positie 0.34 |  |
| (0,64) en (1,96) | y= 32 x + 64 |  |
| (0.04, 3.34) en (0.04, 4.55) | Verticale lijn op positie 0.04 |  |
| E(234,445) en F(612,823) | y= x+211 |  |
| (0,0) en (1,1) | y = x |  |
| (4,2) | Is een punt |  |