

**Exercise 1**

- a) The equations are equivalent to  $y = 4x - 3$  and  $y = \frac{-x+1}{2}$  respectively and can thus be trivially drawn. They intersect at  $x = \frac{7}{9}$ .
- b) As determined previously we have

$$\begin{aligned} 4x - 3 &= \frac{-x+1}{2} \\ 8x - 6 &= -x + 1 \\ 9x &= 7 \\ x &= \frac{7}{9} \end{aligned}$$

which is expected.

**Exercise 2**

a)

I	1	1	3	1	0	I	1	1	3	1	0
II	0	-1	-1	-1	1	II	0	-1	-1	-1	1
III	3	1	5	3	0	III - 3I	0	-2	-4	0	0
IV	1	5	11	8	0	IV - I	0	4	8	7	0

  

I	1	1	3	1	0	I	1	1	3	1	0
II	0	-1	-1	-1	1	II	0	-1	-1	-1	1
III - 2II	0	0	-2	2	-2	III	0	0	-2	2	-2
IV + 4II	0	0	4	3	4	IV + 2III	0	0	0	7	0

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