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	$\boxed{1}$	1	3	1	0
II	0	-1	-1	-1	1
III	3	1	5	3	0
IV	1	5	11	8	0

I	$\boxed{1}$	1	3	1	0
II	0	$\boxed{-1}$	-1	-1	1
III - 3I	0	-2	-4	0	0
IV - I	0	4	8	7	0

I	$\boxed{1}$	1	3	1	0
II	0	$\boxed{-1}$	-1	-1	1
III - 2II	0	0	$\boxed{-2}$	2	-2
IV + 4II	0	0	4	3	4

I	$\boxed{1}$	1	3	1	0
II	0	$\boxed{-1}$	-1	-1	1
III	0	0	$\boxed{-2}$	2	-2
IV + 2III	0	0	0	7	0

Somit