Nr. 10

a) $\begin{vmatrix} x+y=5 \\ -2x+y=-1 \end{vmatrix}$ $\begin{vmatrix} x+y=5 & |-x \\ y=5-x \end{vmatrix}$ $\begin{vmatrix} -2x+y=-1 & |+2x \\ y=-1+2x \end{vmatrix}$

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b) $\begin{vmatrix} 2x+y=7 \\ 6x-2y=6 \end{vmatrix}$ $\begin{vmatrix} 2x+y=7 & |-2x \\ y=7-2x \end{vmatrix}$ $\begin{vmatrix} 6x-2y=6 & |-6x \\ -2y=6-6x & |:2 \\ -y=3-3x & |:(-1) \\ y=-3+3x \end{vmatrix}$

c) $\begin{vmatrix} 6r=2s-8 \\ 8s-12=4r \end{vmatrix}$ $\begin{vmatrix} 6r=2s-8 & |+8 \\ 6r+8=2s & |:2 \\ 3r+4=s \end{vmatrix}$ $\begin{vmatrix} 8s-12=4r & |+12 \\ 8s=4r+12 & |:8 \\ s=\frac{1}{2}r+\frac{3}{2} \end{vmatrix}$ x y / r s

Nr. 11

(1) $\begin{vmatrix} 2x+y=6 \\ 3x+2y=8 \end{vmatrix}$ $\begin{vmatrix} 2x+y=6 & |-2x \\ y=6-2x \end{vmatrix}$ $\begin{vmatrix} 3x+2y=8 & |-3x \\ 2y=8-3x & |:2 \\ y=4-1{,}5x \end{vmatrix}$

Fall ①

(2) $\begin{vmatrix} 4x+2y=5 \\ -2x-y=-\frac{5}{2} \end{vmatrix}$ $\begin{vmatrix} 4x+2y=5 & |-4x \\ 2y=5-4x & |:2 \\ y=2{,}5-2x \end{vmatrix}$ $\begin{vmatrix} -2x-y=-\frac{5}{2} & |+2x \\ -y=-\frac{5}{2}+2x & |:(-1) \\ y=\frac{5}{2}-2x \end{vmatrix}$

Fall ③

(3) $\begin{vmatrix} 2r+3s=6 \\ 2r-3s=6 \end{vmatrix}$ $\begin{vmatrix} 2r+3s=6 & |-2r \\ 3s=6-2r & |:3 \\ s=2+\frac{2}{3}r \end{vmatrix}$ $\begin{vmatrix} 2r-3s=6 & |-2r \\ -3s=6-2r & |:3 \\ -s=\frac{2}{3}-\frac{2}{3}r & |:(-1) \\ s=-\frac{2}{3}+\frac{2}{3}r \end{vmatrix}$ x y / r s

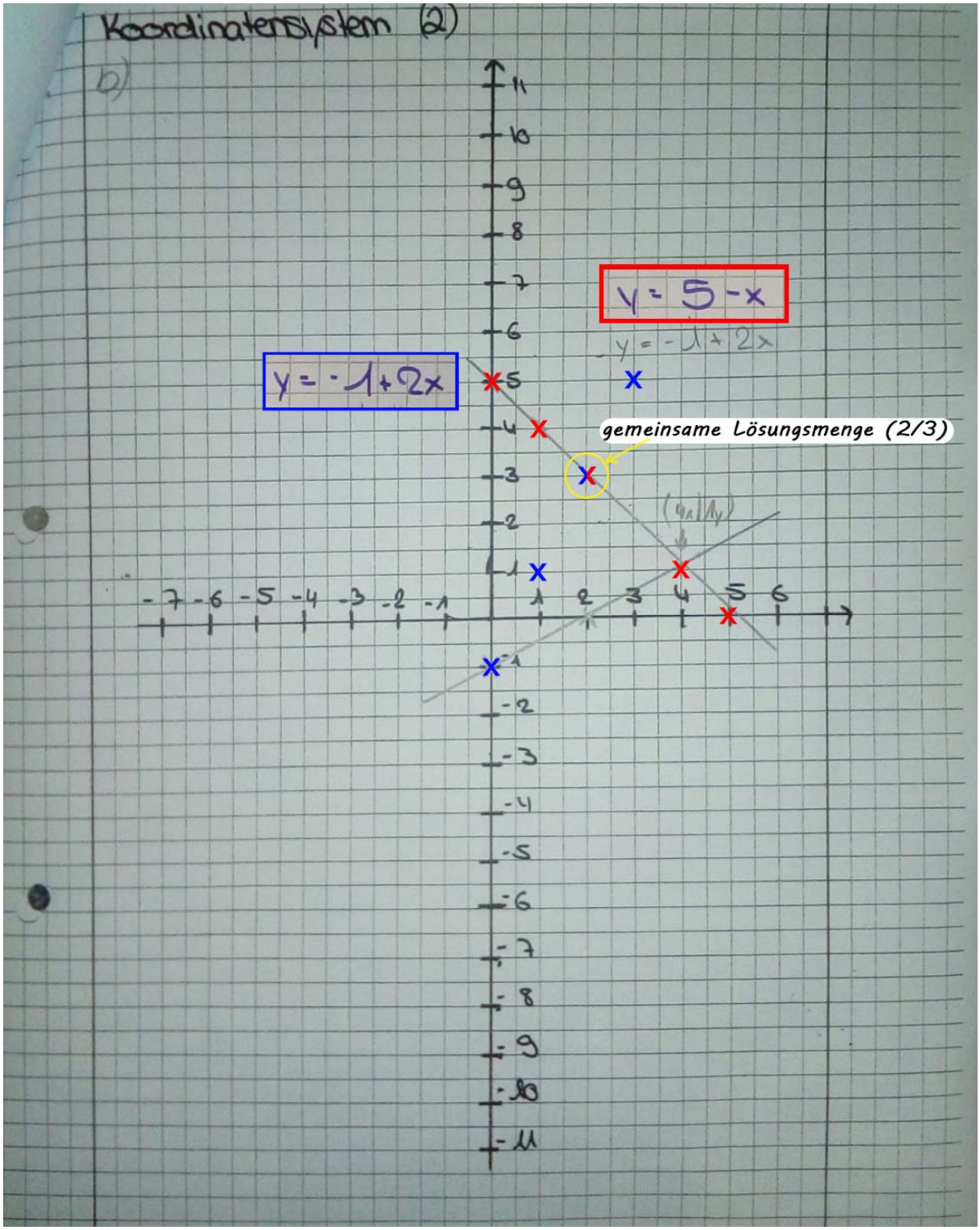
Fall ①

(4) $\begin{vmatrix} 3x-6y=9 \\ 4x-8y=12 \end{vmatrix}$ $\begin{vmatrix} 3x-6y=9 & |-3x \\ -6y=9-3x & |:6 \\ -y=1{,}5-0{,}5x & |:(-1) \\ y=-1{,}5+0{,}5x \end{vmatrix}$ $\begin{vmatrix} 4x-8y=12 & |-4x \\ -8y=12-4x & |:8 \\ -y=1{,}5-0{,}5x & |:(-1) \\ y=-1{,}5+0{,}5x \end{vmatrix}$

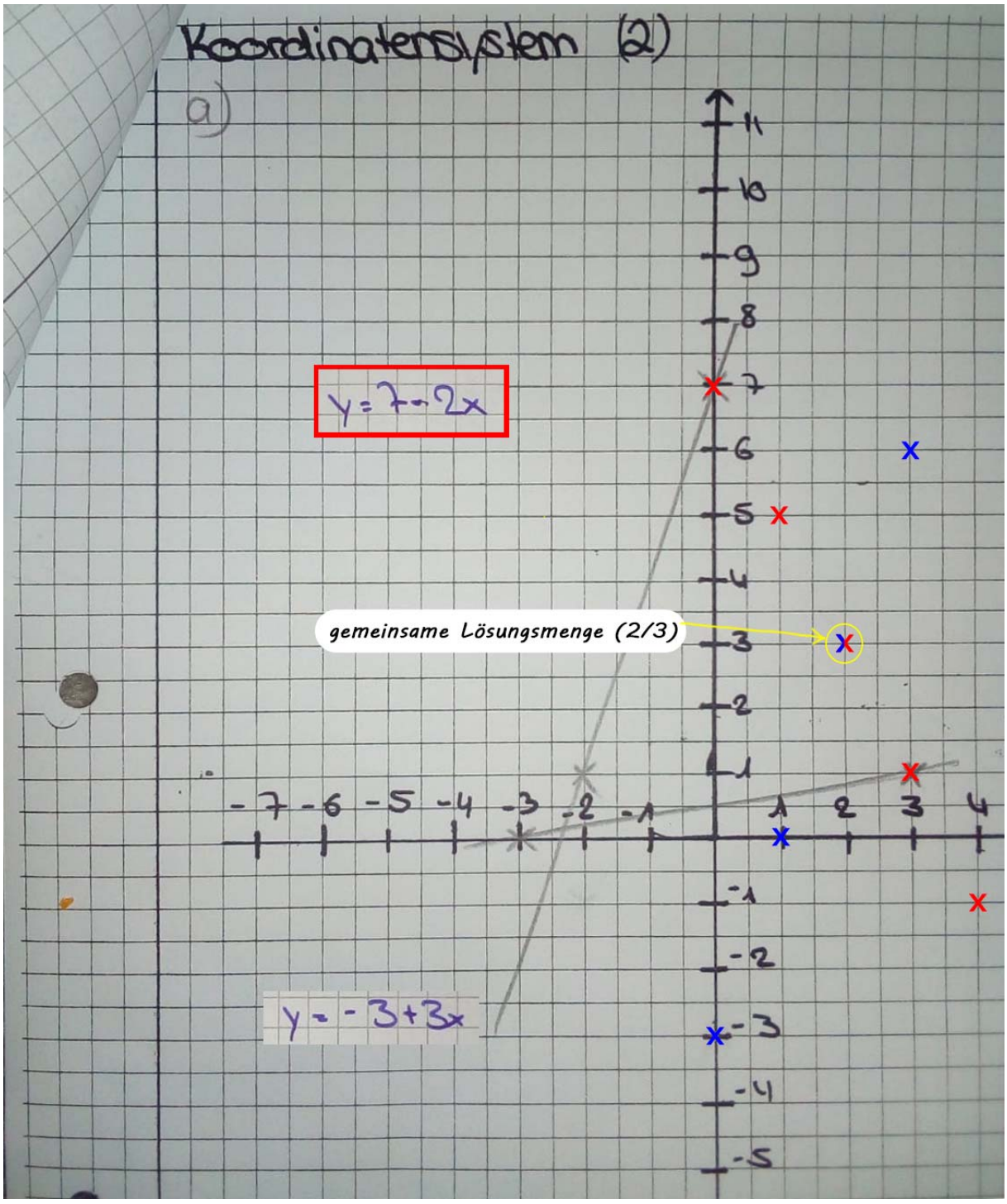
Fall ③

Nr. 10

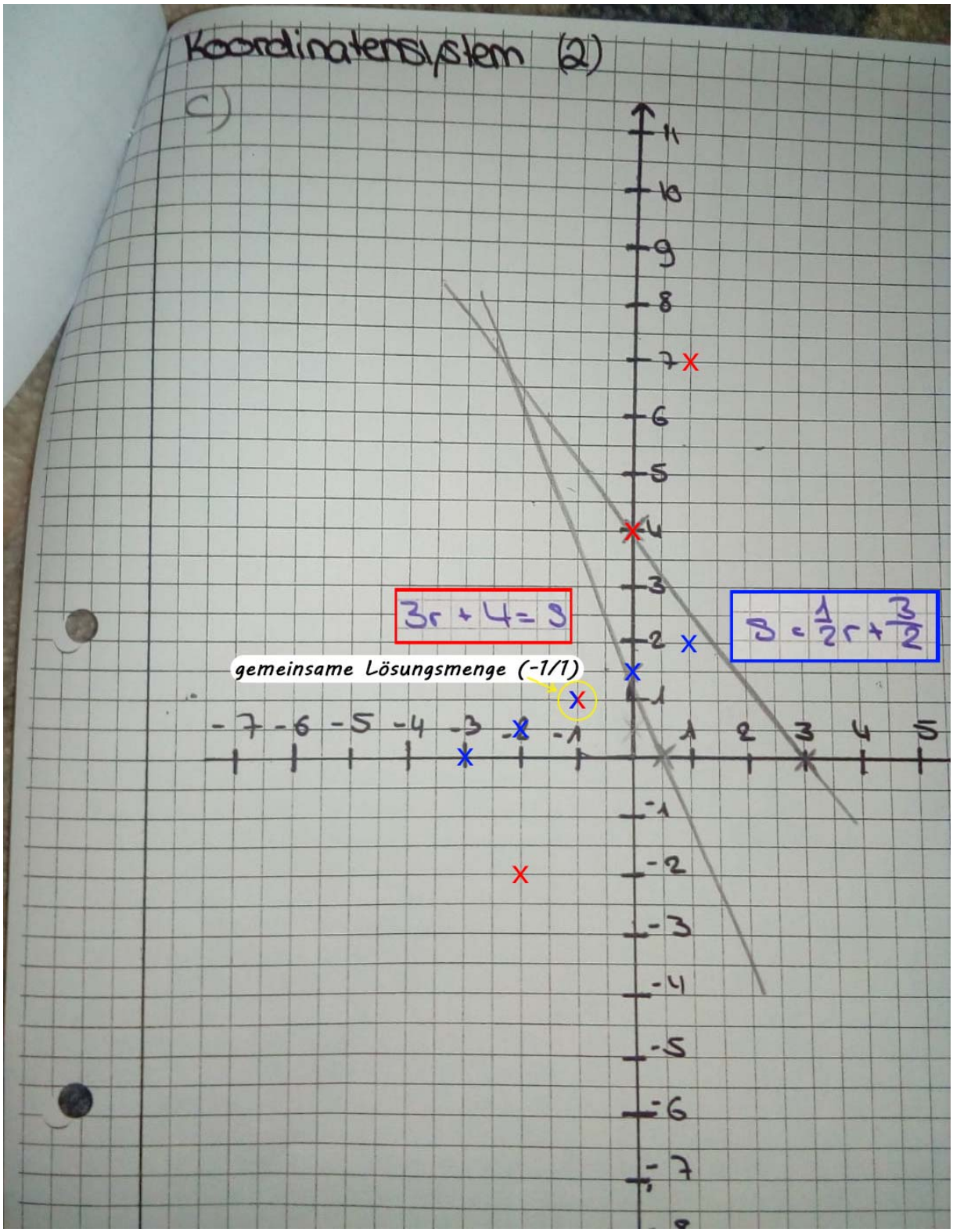
a)


Koordinatensystem (2)
b)
y = 5 - x
y = -1 + 2x
y = -1 + 2x
gemeinsame Lösungsmenge (2/3)

b)

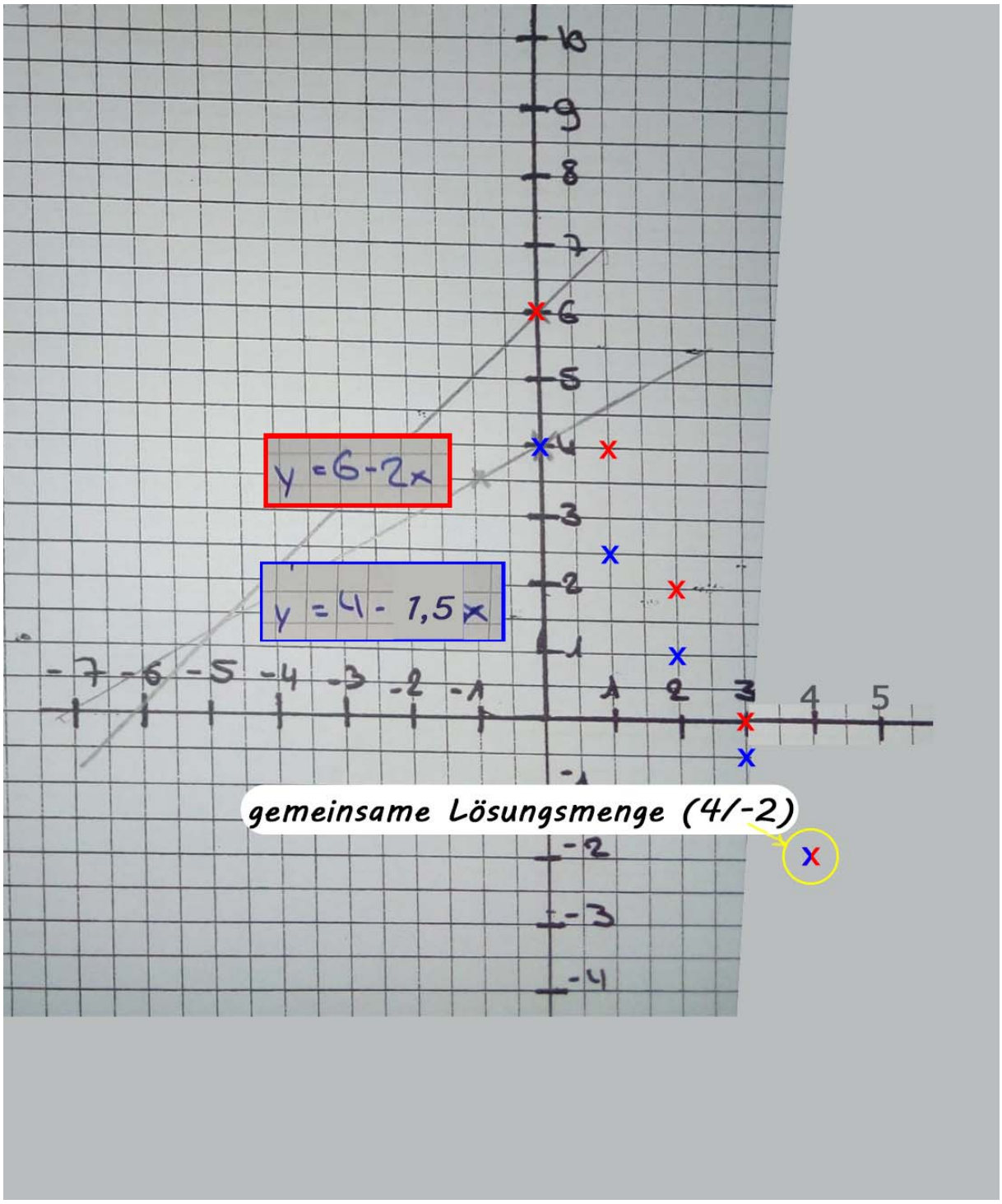

Koordinatensystem (2)
a)
y = 7 - 2x
gemeinsame Lösungsmenge (2/3)
y = -3 + 3x

c)

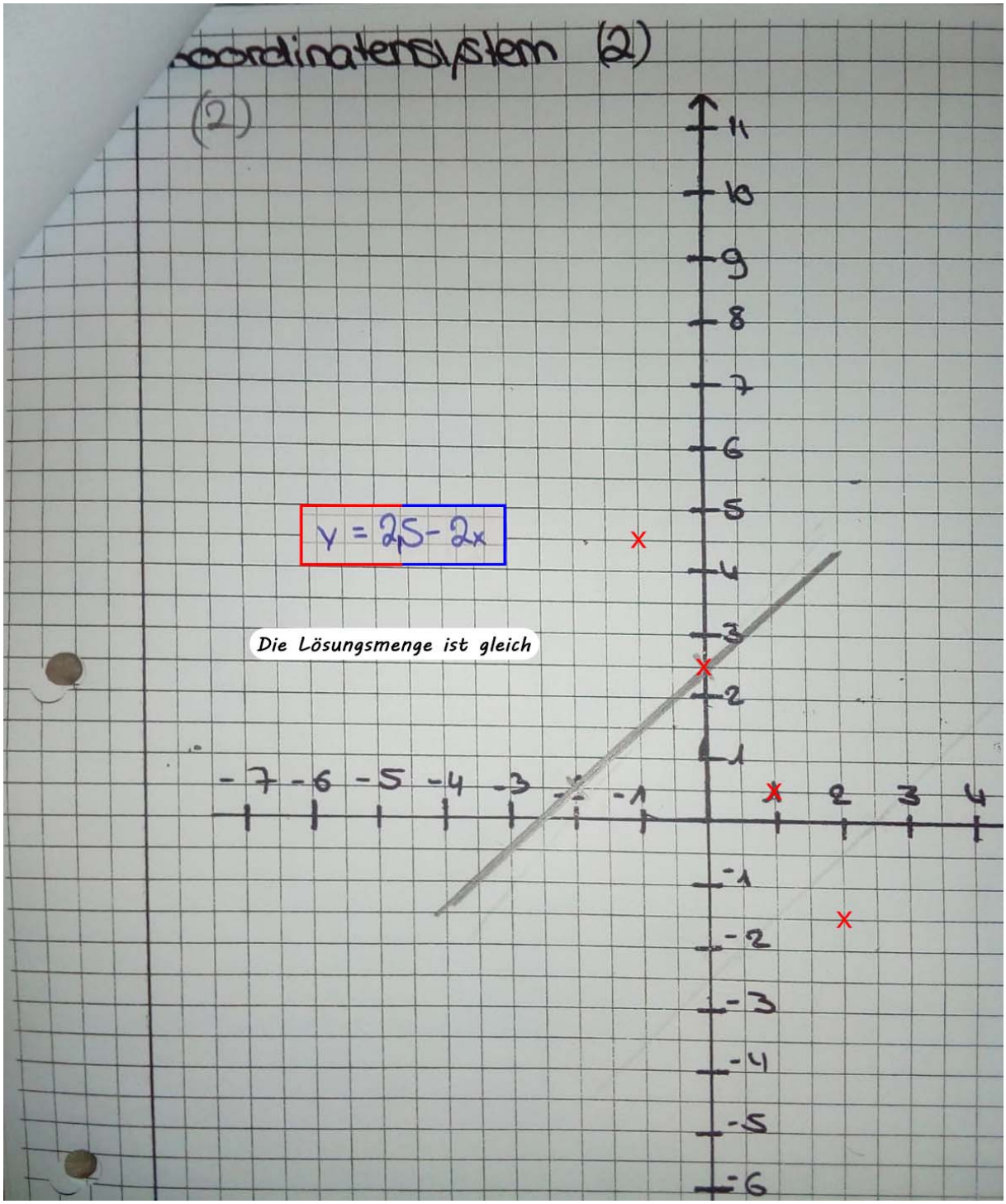

Koordinatensystem (2)
c)
3x + 4 = 8
8 = 1/2 x + 3/2
gemeinsame Lösungsmenge (-1/1)

Nr. 11

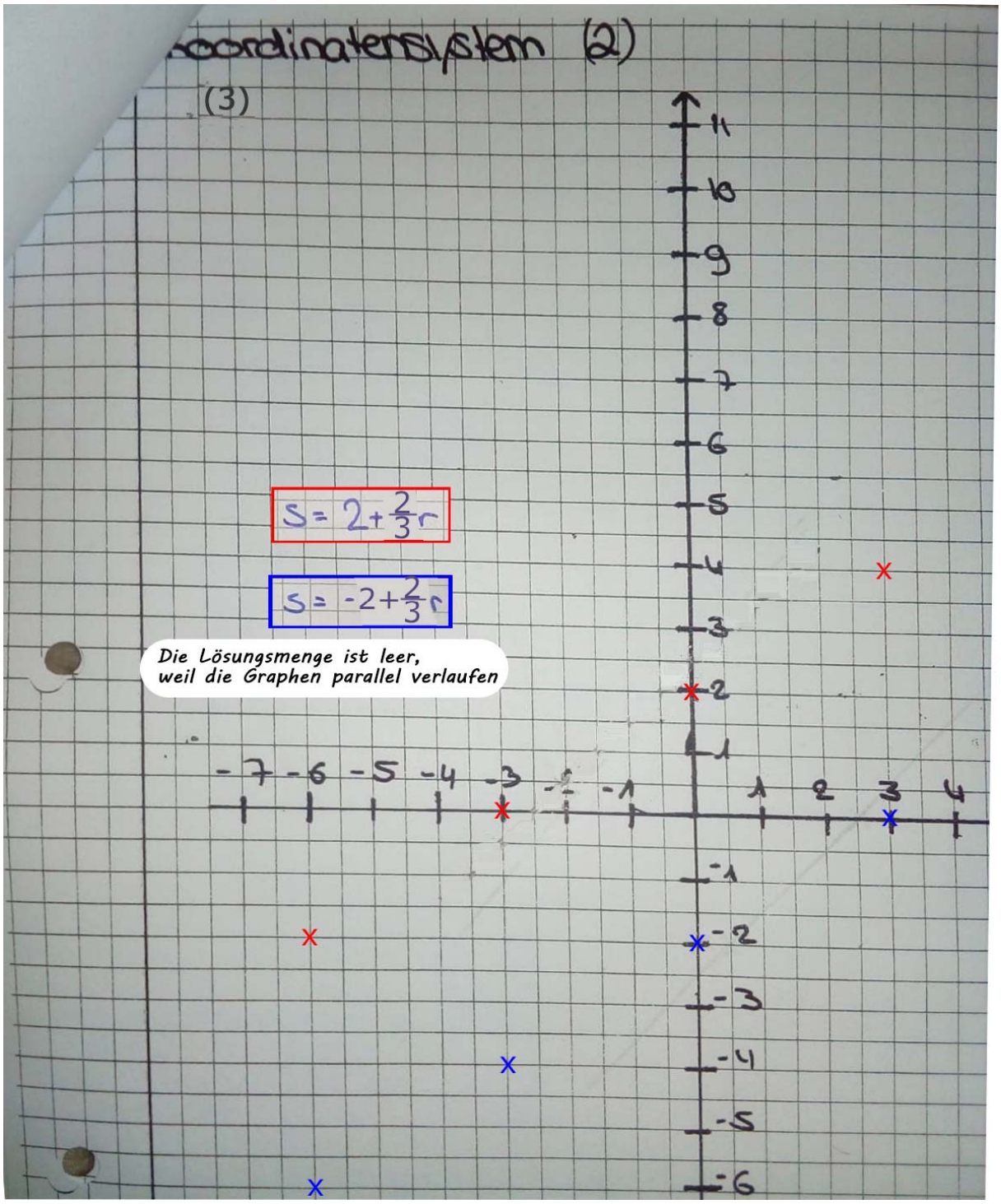
(1)



(2)



(3)


Koordinatensystem (2)
(3)
s = 2 + 2/3 r
s = -2 + 2/3 r
Die Lösungsmenge ist leer, weil die Graphen parallel verlaufen

(4)