

54.

a)

b) (0|2) y = Achse?
? x = Achse?

c) ? (2|3)k?

51.

a) $2x - 7 - 3x = 5(5 - 2x) - 4$ | US
 $-1x - 7 = 15 - 10x - 4$ | US
 $-1x - 7 = 11 - 10x$ | +10x
 $9x - 7 = 11$ | +7
 $9x = 18$ | :9
 $x = 2$

b) Wesprung

c) $1\frac{1}{2}x - 2\frac{2}{5} + \frac{2}{3}x = 2x - 3\frac{2}{5}$ | US
 $1\frac{3}{6}x - 2\frac{2}{5} = 2x - 3\frac{2}{5}$ | +2x
 $1\frac{3}{6}x = 2x + \frac{6}{10} - 3\frac{2}{5}$ | -2x
 $-\frac{5}{6}x = \frac{6}{10} - \frac{15}{5}$ | : -5/6
 $x = 3,60 - \frac{15}{6}$

52.

a) $x^2 - 7x + 6 = 0$ | -6
 $x^2 - 7x = -6$ | +6
 $8x^2 = -6$ | :8
 $x^2 = -0,75$ | $\sqrt{\quad}$
 $x = 0,866...$

b) ?
c) ?

53.

a)

I $2x - 3y = 5$ | :2
II $5x + 6y = -1$

I $4x - 6y = 10$
II $5x + 6y = -1$

I+II $9x = 9$ | :9
 $x = 1$

I $2 \cdot 1 - 3y = 5$ | US
 $2 - 3y = 5$ | -2
 $-3y = 3$ | :(-3)
 $y = -1$

b) I $-5x + 2y = 19$
II $+y = 1,5 - x$

II in I $-5x + 2 \cdot (1,5 - x) = 19$ | US
 $-5x + 3 - 2x = 19 - 3$
 $-5x - 2x = 16$ | US
 $-7x = 16$ | :(-7)
 $x = -2,28$ → nächste Seite

II $y = 1,5 - 1 \cdot 2 = 3,5$ | -3,5

c) I $x = 2y + 3$
II $x = 4 - y$

$2y + 3 = 4 - y$ | +y
 $3y + 3 = 4$ | -3
 $3y = 1$ | :3
 $y = \frac{1}{3}$

II: $x = 4 - \frac{1}{3}$
 $x = 3\frac{2}{3}$ | -3\frac{2}{3}

d)

I $-x + 3y = 6$ | :2
II $2x - 6y = 0$

I $-2x + 6y = 12$ | +II
II $2x - 6y = 0$ | +II
 $0 = 12$ ← geht nicht auf? oder Fehler?

e) I $1,2x + 3,6y = 4,8$ | :1,2
II $2,3x + 6,9y = 9,2$

I $x + 3y = 4$
II $2,3x + 6,9y = 9,2$ | :2,3

I $x + 3y = 4$
II $x + 3y = 4$