Lösungen lineare Funktionen Teil XIII

Ergebnisse:

E1 Ergebnisse

a)

$$f_2(x)=\frac{4}{5}x+\frac{9}{10};S\left(2\left|\frac{5}{2}\right.\right)$$

$$D=\{x\mid -1\le x\le 4\}_{\mathbb{R}}$$

$$m_1=-\frac{1}{m_2}=-\frac{5}{4}$$

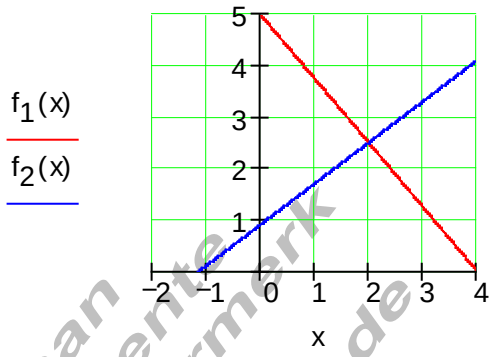
$$f_1(x)=-\frac{5}{4}x+5$$

b)

$$P_{y_1}(0\mid 5);P_{y_2}\left(0\left|\frac{9}{10}\right.\right)$$

$$P_{x_1}(4\mid 0);P_{x_2}\left(-\frac{9}{8}\left|0\right.\right)$$

c)



E2 Ergebnis

a)

$$f_1(x)=-4x-2;m_3=\frac{1}{4}$$

$$f_2(x)=2x+4$$

$$D=\{x\mid -9\le x\le 0\}_{\mathbb{R}}$$

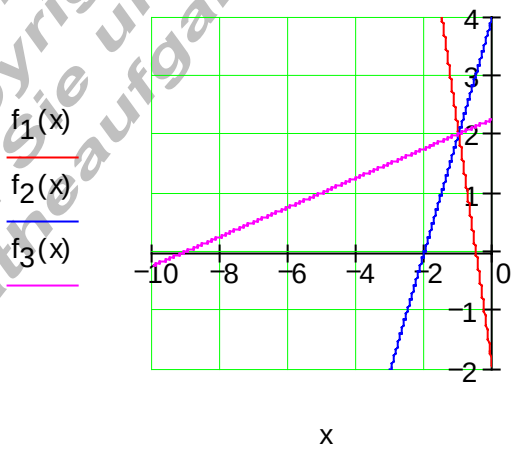
$$S(-1\mid 2)$$

$$f_3(x)=\frac{1}{4}x+\frac{9}{4}$$

$$P_{y_1}(0\mid -2);P_{y_2}(0\mid 4)$$

$$P_{y_3}\left(0\left|\frac{9}{4}\right.\right);P_{x_1}\left(-\frac{1}{2}\left|0\right.\right)$$

$$P_{x_2}(-2\mid 0);P_{x_3}(-9\mid 0)$$



E2 Ergebnis

b)

$f_1(x)=\frac{1}{4}x+\frac{9}{4}; m_3=-4$

$f_2(x)=2x+4$

$D=\{x\mid -9\le x\le 0\}_{\mathbb{R}}$

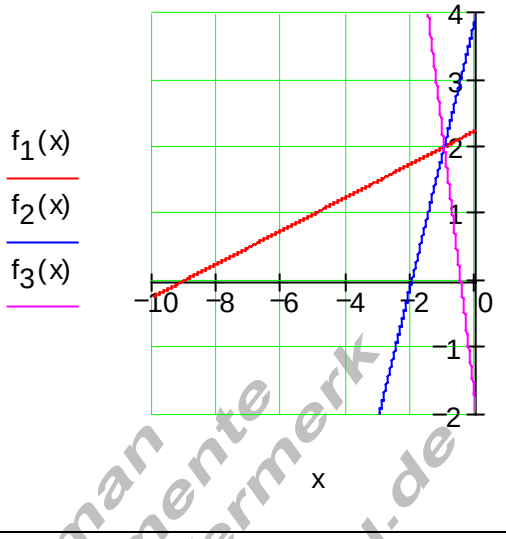
$S(-1\mid 2)$

$f_3(x)=-4x-2$

$P_{y_1}\left(0\mid \frac{9}{4}\right); P_{y_2}(0\mid 4)$

$P_{y_3}(0\mid -2); P_{x_1}(-9\mid 0)$

$P_{x_2}(-2\mid 0); P_{x_3}\left(-\frac{1}{2}\mid 0\right)$



E3 Ergebnis

$P_1\left(-2\mid \frac{3}{2}\right); P_2(3\mid 5);$

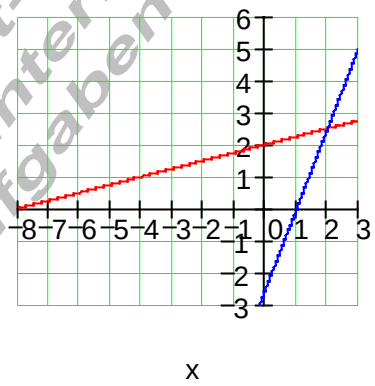
$S\left(2\mid \frac{5}{2}\right); D=\{x\mid -8\le x\le 3\}_{\mathbb{R}}$

$m_1=\frac{1}{4}; f_1(x)=\frac{1}{4}x+2$

$m_2=\frac{5}{2}; f_2(x)=\frac{5}{2}x-\frac{5}{2}$

$P_{y_1}(0\mid 2); P_{y_2}\left(0\mid -\frac{5}{2}\right)$

$P_{x_1}(-8\mid 0); P_{x_2}(1\mid 0)$



E4 Ergebnisse

a)

$P_1\left(-1\mid \frac{5}{2}\right); P_2\left(-3\mid \frac{11}{2}\right);$

$D=\{x\mid -9\le x\le 3\}_{\mathbb{R}}$

$m_3=-4; f_3(x)=-4x-\frac{13}{2}$

b)

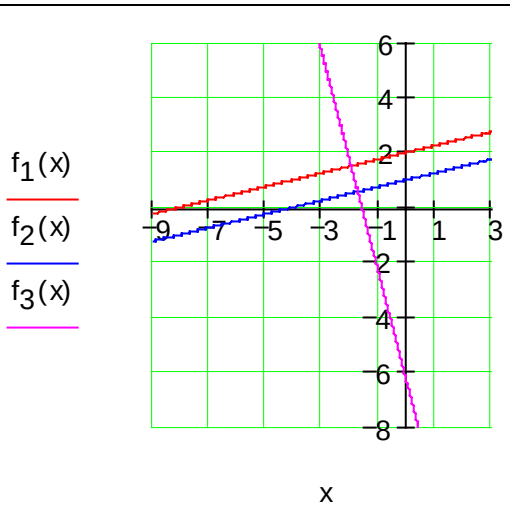
$m_1=\frac{1}{4}=-\frac{1}{m_3}; f_1(x)=\frac{1}{4}x+2$

c)

$m_2=\frac{1}{4}; f_2(x)=\frac{1}{4}x+1$

$P_3\left(-2\mid \frac{3}{2}\right); P_4\left(-\frac{30}{17}\mid \frac{19}{34}\right)$

d)



E5 Ergebnisse

a) $A\left(-\frac{13}{2} \mid -\frac{3}{2}\right); B(3 \mid 2)$

$D = \{x \mid -8 \le x \le 4\}_{\mathbb{R}}$

$m_1 = \frac{7}{19}; f_1(x) = \frac{7}{19}x + 19$

b) $m_3 = -\frac{1}{3}\ \ f_3(x) = -\frac{1}{3}x + 3$

c) $m_2 = -\frac{1}{m_3} = 3; f_2(x) = 3x + 18$

d) $C\left(-\frac{9}{2} \mid \frac{9}{2}\right)$

e)