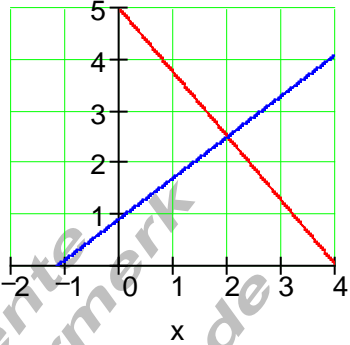
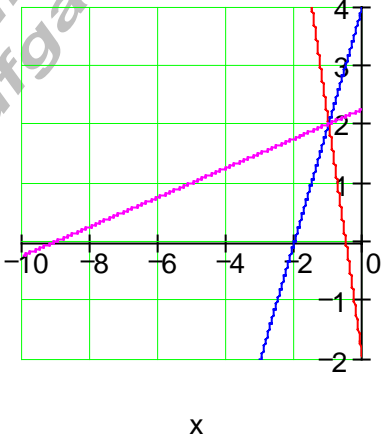


Lösungen lineare Funktionen Teil XIII

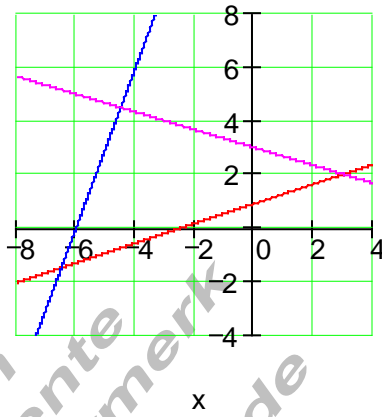
Ergebnisse:

| | | |
|----|--|---|
| E1 | Ergebnisse | |
| | <p>a)</p> $f_2(x) = \frac{4}{5}x + \frac{9}{10}; S\left(2 \mid \frac{5}{2}\right)$ $D = \{x \mid -1 \leq x \leq 4\}_{\mathbb{R}}$ $m_1 = -\frac{1}{m_2} = -\frac{5}{4}$ $f_1(x) = -\frac{5}{4}x + 5$ | <p>c)</p>  <p> $f_1(x)$ $f_2(x)$ </p> |
| | <p>b)</p> $P_{y_1}(0 \mid 5); P_{y_2}\left(0 \mid \frac{9}{10}\right)$ $P_{x_1}(4 \mid 0); P_{x_2}\left(-\frac{9}{8} \mid 0\right)$ | |
| E2 | Ergebnis | |
| | <p>a)</p> $f_1(x) = -4x - 2; m_3 = \frac{1}{4}$ $f_2(x) = 2x + 4$ $D = \{x \mid -9 \leq x \leq 0\}_{\mathbb{R}}$ $S(-1 \mid 2)$ $f_3(x) = \frac{1}{4}x + \frac{9}{4}$ $P_{y_1}(0 \mid -2); P_{y_2}(0 \mid 4)$ $P_{y_3}\left(0 \mid \frac{9}{4}\right); P_{x_1}\left(-\frac{1}{2} \mid 0\right)$ $P_{x_2}(-2 \mid 0); P_{x_3}(-9 \mid 0)$ |  <p> $f_1(x)$ $f_2(x)$ $f_3(x)$ </p> |

| E2 Ergebnis | |
|---|--|
| b) $f_1(x) = \frac{1}{4}x + \frac{9}{4}; m_3 = -4$ $f_2(x) = 2x + 4$ $D = \{x \mid -9 \leq x \leq 0\}_{\mathbb{R}}$ $S(-1 \mid 2)$ $f_3(x) = -4x - 2$ $P_{y_1} \left(0 \mid \frac{9}{4} \right); P_{y_2} (0 \mid 4)$ $P_{y_3} (0 \mid -2); P_{x_1} (-9 \mid 0)$ $P_{x_2} (-2 \mid 0); P_{x_3} \left(-\frac{1}{2} \mid 0 \right)$ | |

| E3 Ergebnis | |
|---|--|
| $P_1 \left(-2 \mid \frac{3}{2} \right); P_2 (3 \mid 5);$ $S \left(2 \mid \frac{5}{2} \right); D = \{x \mid -8 \leq x \leq 3\}_{\mathbb{R}}$ $m_1 = \frac{1}{4}; f_1(x) = \frac{1}{4}x + 2$ $m_2 = \frac{5}{2}; f_2(x) = \frac{5}{2}x - \frac{5}{2}$ $P_{y_1} (0 \mid 2); P_{y_2} \left(0 \mid -\frac{5}{2} \right)$ $P_{x_1} (-8 \mid 0); P_{x_2} (1 \mid 0)$ | |

| E4 Ergebnisse | |
|--|--|
| a) $P_1 \left(-1 \mid \frac{5}{2} \right); P_2 \left(-3 \mid \frac{11}{2} \right);$ $D = \{x \mid -9 \leq x \leq 3\}_{\mathbb{R}}$ $m_3 = -4; f_3(x) = -4x - \frac{13}{2}$ | |
| b) $m_1 = \frac{1}{4} = -\frac{1}{m_3}; f_1(x) = \frac{1}{4}x + 2$ | |
| c) $m_2 = \frac{1}{4}; f_2(x) = \frac{1}{4}x + 1$ $P_3 \left(-2 \mid \frac{3}{2} \right); P_4 \left(-\frac{30}{17} \mid \frac{19}{34} \right)$ | |

| E5 Ergebnisse | |
|---------------|---|
| a) | $A\left(-\frac{13}{2} \mid -\frac{3}{2}\right); B(3 \mid 2)$ $D = \{x \mid -8 \leq x \leq 4\}_{\mathbb{R}}$ $m_1 = \frac{7}{19}; f_1(x) = \frac{7}{19}x + 19$ |
| 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) |  <p>$f_1(x)$ $f_2(x)$ $f_3(x)$</p> |

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