

Fehlerverzeichnis EM 1

März 2017

Seite, Zeile	falsch	richtig
11, 9. vo	$(f) \frac{1}{2} < \frac{2}{5} \iff \frac{1}{2} < \frac{3}{5}$ wahr, da $\frac{1}{2} < \frac{2}{5}$ und $\frac{1}{2} < \frac{3}{5}$ beide falsch sind.	
		$(f) \frac{1}{2} < \frac{2}{5} \iff \frac{1}{2} < \frac{3}{5}$ falsch, da $\frac{1}{2} < \frac{2}{5}$ falsch und $\frac{1}{2} < \frac{3}{5}$ wahr ist.
24, 3. vu	(a) $3a^2xy - 2bxy + 6a^2x^2 = \underline{x(3a^2y - 2by + 6a^2x)}$	(a) $3a^2xy - 2bxy + 6ax^2y^2 = \underline{xy(3a^2 - 2b + 6axy)}$
25, 5. vo	$21x^2a^2b - 63xa^2 + 49xab = 7(3x^2a^2b - 9xa^2 - 7xab)$	$\dots = 7(3x^2a^2b - 9xa^2 + 7xab)$
36, 5. vu	<u>Nullstellen</u> $-5, 0, 2$, wobei	<u>Nullstellen</u> $-5, 0, \mathbf{3}$, wobei
55, 6. vo	3.31 $1 + q + q^2 + q^3 + \dots + q^n = \sum_{k=1}^n q^k =$	3.31 $1 + q + q^2 + q^3 + \dots + q^n = \sum_{k=0}^n q^k =$
65, 10. vo	(7) $\dots = \frac{63ac}{10b}$	$\dots = \frac{27ac}{10b}$.
67, 6. vo	$0.025\% = \frac{0.025}{100} = \frac{25}{10\,000} = \frac{1}{\underline{400}}$,	$0.025\% = \frac{0.025}{100} = \frac{25}{100\,000} = \frac{1}{\underline{4000}}$,
72, 12. vo	(a) Es ist $0.0\overline{12} = \frac{4}{555}$,	(a) Es ist $0.00\overline{72} = \frac{4}{555}$,
72, 2. vu	$\dots \frac{121}{891}$	$\dots \frac{112}{891}$
74, 13. vo	$2.03\overline{8}, -31.0\overline{10}, 0.0\overline{131}$.	$2.03\overline{8}, -31.0\overline{10}, 0.0\mathbf{3}\overline{131}$.
84, 10. vu	$= \frac{3^{\frac{1}{3}} \cdot 5^{\frac{1}{12}}}{2^{\frac{1}{12}}}$.	$= 2^{\frac{7}{12}} \cdot 3^{\frac{1}{4}} \cdot 5^{\frac{1}{12}}$.
87, 8. vu	$\sqrt[3]{\frac{4}{5\sqrt{2}}} = \left(\frac{2^2}{2^{\frac{5}{2}}}\right)^{\frac{1}{3}} = \dots$	$\sqrt[3]{\frac{4}{5\sqrt{2}}} = \left(\frac{2^2}{2^{\frac{5}{2}}}\right)^{\frac{1}{3}} = (2^{\frac{9}{5}})^{\frac{1}{3}} = 2^{\frac{3}{5}} = \sqrt[5]{2^3} = \underline{\sqrt[5]{8}}$.
98, 4. vo	(f) $\frac{60 + \sqrt{48}}{\sqrt{6}} =$	(f) $\frac{\sqrt{60 + \sqrt{48}}}{\sqrt{6}} =$
109, 2. vo	$= 4u^2 + 9v^2 + 16w^2 + 25x^2 + 2(-6u - 8uw + 10ux + 12vw - 15vx - 20wx)$	
		$= 4u^2 + 9v^2 + 16w^2 + 25x^2 + 2(-6uv - 8uw + 10ux + 12vw - 15vx - 20wx)$
174, 4. vu	(e) $\frac{2x+1}{3} - \frac{x+2}{5} = \frac{1}{3}$	(e) $\frac{2x+1}{3} - \frac{x-2}{5} = \frac{1}{3}$
175, 1., 2. vu	$\iff -259x = -8$ $\iff \underline{x = \frac{8}{259}}$.	$\iff -263x = -8$ $\iff \underline{x = \frac{8}{263}}$.
189, 4. v0	[Seite 12]	[Seite 192]
189, 8. v0	wird durch die höchste Potenz $a_m x^m$	wird durch die höchste Potenz $b_m x^m$
191, 6. vo	nur Teiler von -1 , also $\pm 1, \pm 3$ sein.	nur Teiler von $-\mathbf{3}$, also $\pm 1, \pm 3$ sein.
193, 1, 3, 6, 15. vu	$x^4 - 4x^3 + 2x^2 + x =$	$x^4 - 4x^3 + 2x^2 + \mathbf{4x} =$

Seite, Zeile	falsch	richtig																																
218, 13. vu	Für die Matrix $A = \begin{pmatrix} -1 & 1 \\ 2 & 1 \end{pmatrix}$	Für die Matrix $A = \begin{pmatrix} 1 & -1 \\ 2 & 1 \end{pmatrix}$																																
221, 9. vo	$1 \cdot 2 + 3 \cdot 4 + 4 \cdot 1 = 12$ ME von R_1	$1 \cdot 2 + 3 \cdot 4 + 4 \cdot 1 = \mathbf{18}$ ME von R_1																																
221, 11. vo	$3 \cdot 2 + 0 \cdot 4 + 4 \cdot 1 = 7$ ME von R_3 .	$3 \cdot 2 + 0 \cdot 4 + \mathbf{1} \cdot 1 = 7$ ME von R_3 .																																
221, 14. vo	$= \begin{pmatrix} 12 & 14 \\ 18 & 13 \\ 7 & 11 \end{pmatrix}$, als Tabelle <table style="display: inline-table; vertical-align: middle; border-collapse: collapse;"> <tr><td style="border-right: 1px solid black; padding: 2px;">R_1</td><td style="padding: 2px;">12</td><td style="padding: 2px;">14</td></tr> <tr><td style="border-right: 1px solid black; padding: 2px;">R_2</td><td style="padding: 2px;">18</td><td style="padding: 2px;">13</td></tr> <tr><td style="border-right: 1px solid black; padding: 2px;">R_3</td><td style="padding: 2px;">7</td><td style="padding: 2px;">11</td></tr> </table>	R_1	12	14	R_2	18	13	R_3	7	11	$= \begin{pmatrix} \mathbf{18} & 14 \\ 18 & 13 \\ 7 & 11 \end{pmatrix}$, als Tabelle <table style="display: inline-table; vertical-align: middle; border-collapse: collapse;"> <tr><td style="border-right: 1px solid black; padding: 2px;">R_1</td><td style="padding: 2px;">$\mathbf{18}$</td><td style="padding: 2px;">14</td></tr> <tr><td style="border-right: 1px solid black; padding: 2px;">R_2</td><td style="padding: 2px;">18</td><td style="padding: 2px;">13</td></tr> <tr><td style="border-right: 1px solid black; padding: 2px;">R_3</td><td style="padding: 2px;">7</td><td style="padding: 2px;">11</td></tr> </table>	R_1	$\mathbf{18}$	14	R_2	18	13	R_3	7	11														
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226, 8. vo	<table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td style="padding: 2px;">x</td><td style="padding: 2px;">y</td><td style="padding: 2px;"></td><td style="padding: 2px;">Regie</td></tr> <tr><td style="padding: 2px; border: 1px solid black;">2</td><td style="padding: 2px;">3</td><td style="padding: 2px;">8</td><td style="padding: 2px;">7</td></tr> <tr><td style="padding: 2px;">7</td><td style="padding: 2px;">-4</td><td style="padding: 2px;">1</td><td style="padding: 2px;">-2</td></tr> <tr><td style="padding: 2px;">0</td><td style="padding: 2px; border: 1px solid black;">29</td><td style="padding: 2px;">58</td><td style="padding: 2px;"></td></tr> </table>	x	y		Regie	2	3	8	7	7	-4	1	-2	0	29	58		<table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td style="padding: 2px;">x</td><td style="padding: 2px;">y</td><td style="padding: 2px;"></td><td style="padding: 2px;">Regie</td></tr> <tr><td style="padding: 2px; border: 1px solid black;">2</td><td style="padding: 2px;">3</td><td style="padding: 2px;">8</td><td style="padding: 2px;">7</td></tr> <tr><td style="padding: 2px;">7</td><td style="padding: 2px;">-4</td><td style="padding: 2px;">-1</td><td style="padding: 2px;">-2</td></tr> <tr><td style="padding: 2px;">0</td><td style="padding: 2px; border: 1px solid black;">29</td><td style="padding: 2px;">58</td><td style="padding: 2px;"></td></tr> </table>	x	y		Regie	2	3	8	7	7	-4	-1	-2	0	29	58	
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238, 6. vo	$y = -3x + 1$	$y = -3x - 1$																																
242, 6. vo	$y = \frac{1}{2}(+z)$	$y = \frac{1}{2}(\mathbf{x+z})$																																
252, 18. vo	$x_1 = 3, x_3 = -1.$	$x_1 = 3, x_2 = -1.$																																
305, 11. vo	, also $\underline{\vec{c}} = 2\vec{a} - \vec{b}.$, also $\underline{\vec{c}} = 2\vec{b} - \vec{a}.$																																

Außerdem leider einige Schreibfehler!