

ausklammern oder faktorisieren

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|-----------------------|---|---|--------------------------------|---|--|
| 1. $10vy + 50y^2$ | = | $10y (v + 5y)$ | 21. $24w + 24x + 20z$ | = | $4 (6w + 6x + 5z)$ |
| 2. $3vy + 24y$ | = | $3y (v + 8)$ | 22. $48a + 6b + 30c$ | = | $6 (8a + b + 5c)$ |
| 3. $27c + 9e^*$ | = | Druckfehler | 23. $3w^2 + 9w$ | = | $3w (w + 3)$ |
| 4. $8vy + 32y^2$ | = | $8y (v + 4y)$ | 24. $5wy + 40y$ | = | $5y (w + 8)$ |
| 5. $40c + 10d$ | = | $10 (4c + d)$ | 25. $4ax - 12ax^2$ | = | $4ax (1 - 3x)$ |
| 6. $14w + 21x$ | = | $7 (2w + 3x)$ | 26. $10a + 20a^2 - 25a^3$ | = | $5a (2 + 4a - 5a^2)$ |
| 7. $46b - 32c + 22d$ | = | $2 (23b - 16c + 11d)$ | 27. $3ae + 24e$ | = | $3e (a + 8)$ |
| 8. $5bd + 45d$ | = | $5d (b + 9)$ | 28. $12v + 3w + 3y$ | = | $3 (4v + w + y)$ |
| 9. $16b + 40c$ | = | $8 (2b + 5c)$ | 29. $11a^2b^2 + 22ab^7$ | = | $11ab^2 (a + 2b^5)$ |
| 10. $7d + 42$ | = | $7 (d + 6)$ | 30. $15a + 5c + 10d$ | = | $5 (3a + c + 2d)$ |
| 11. $5d^2 + 25d$ | = | $5d (d + 5)$ | 31. $3b^4 + 21ab^4$ | = | $3b^4 (1 + 7a)$ |
| 12. $14w + 49y + 21z$ | = | $7 (2w + 7y + 3z)$ | 32. $a + a^2 + a^3$ | = | $a (1 + a + a^2)$ |
| 13. $42a + 6b + 9c$ | = | $3 (14a + 2b + 3c)$ | 33. $2x + 3y - 7z$ | = | nichts ist sinnvoll |
| 14. $49w^2 + 7wz$ | = | $7w (7w + z)$ | 34. $8p + 16q - 4r$ | = | $4 (2p + 4q - r)$ |
| 15. $9c^2 + 18c$ | = | $9c (c + 2)$ | 35. $p^{12} + p^{21} - p^{18}$ | = | $p^{12} (1 + p^9 - p^6)$ |
| 16. $24b + 4c + 4d$ | = | $4 (6b + c + d)$ | 36. $xyz + xy^2z^5$ | = | $xyz (1 + yz^4)$ |
| 17. $16c + 38e$ | = | $2 (8c + 19e)$ | 37. $ida - ade$ | = | $ad (i - e)$ |
| 18. $12v + 6w + 6z$ | = | $6 (2v + w + z)$ | 38. $3x^8 - 15x^3y$ | = | $3x^3 (x^5 - 5y)$ |
| 19. $48w + 44x + 36y$ | = | $4 (12w + 11x + 9y)$ | 39. $armut + helmut$ | = | $mut (ar + hel)$ |
| 20. $4vy + 8y$ | = | $4y (v + 2)$ | 40. $co^2 - h^2o$ | = | $o (co - h^2)$ |

$*27c + 9^e = 9 (3c + 9^{e-1})$