

Klasse: 7

Thema: Rechnen mit Termen – Umformen von Summen

Lösungen

Forme möglichst geschickt um:

1. $a + 5a$

$= 6a$

2. $3a + 5a - 2b$

$= 8a - 2b$

3. $8ab + 2ab - 6ab + 8abc$

$= 4ab + 8abc$

4. $7x + 8y + 9x$

$= 16x + 8y$

5. $4x^2 - 16xy + 64y^2 - 56yx$

$= 4x^2 - 72xy + 64y^2$

6. $12x^3 + 3x^2 + 4x^2 + 5x^3$

$= 17x^3 + 7x^2$

7. $24a + 16s + 4a - 9s + 2s - 6a + 3a$

$= 25a + 9s$

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$$\begin{aligned} 8. & 75m + 18n - 9m + 23n + m \\ & = 67m + 41n \end{aligned}$$

$$\begin{aligned} 9. & 2xy^2 + 20xy - 5xy^2 - 16yx \\ & = -3xy^2 + 4xy \end{aligned}$$

$$\begin{aligned} 10. & 6x + (4y - 6x) \\ & = 4y \end{aligned}$$

$$\begin{aligned} 11. & (4x - 6y) - ((2x + 5y) - (x + 6y)) \\ & = 3x - 5y \end{aligned}$$

$$\begin{aligned} 12. & f^2g + 2f^2g + f^3 - 3gf^2 \\ & = f^3 \end{aligned}$$

$$\begin{aligned} 13. & h^3 + (6f^2 - 6h^3) + 4a \\ & = -5h^3 + 6f^2 + 4a \end{aligned}$$

$$\begin{aligned} 14. & 15a^2b + 16b^2a + (17ab^2 - 16a^2b) \\ & = -a^2b + 33ab^2 \end{aligned}$$

$$\begin{aligned} 15. & (-((a^2b^2 + ab^2) + (ab^2 - b^2a^2)) - a^2b^2 + a^2b) + 2a \\ & = -2ab^2 - a^2b^2 + a^2b + 2a \end{aligned}$$