



## Terme vereinfachen I

Vereinfache die folgenden Terme.

1.  $-3h - 3e + h + 2e - 3e - 2h - 3e - 2h =$  \_\_\_\_\_
2.  $3b + 2c + 2c - b - b - 3b + 3c + 3c =$  \_\_\_\_\_
3.  $g + 2g + 3g + 2g + 2g + 2g + 3g - g =$  \_\_\_\_\_
4.  $-2d + d + 3d - 3d + 3d + 2d + d + d =$  \_\_\_\_\_
5.  $h + 3b + b + 2b - 2h + h + 2b + 3b =$  \_\_\_\_\_
6.  $2f + 2f + 2f - 3i + 3f - 3f + 3f + 2f =$  \_\_\_\_\_
7.  $b + 2b + b + 2i - 3b + 2b - 3b + b =$  \_\_\_\_\_
8.  $-2j - k - 2k - 3j + 2j + j + 2k + 2k =$  \_\_\_\_\_
9.  $b + 3h - 2b - 3b + 3b - b + h + b =$  \_\_\_\_\_
10.  $-k + 3j + 3j + j + 3j - 3k + 2j + 3j =$  \_\_\_\_\_
11.  $dh + 3d - d^2h + 3d^2h + 4d^2h - 2dh + d - 3d^2h =$  \_\_\_\_\_
12.  $-2ag^2 + 4ag + 4a^2 + 4a^3 - 4ag^2 + 3ag^2 + 3ag + a^2 =$  \_\_\_\_\_
13.  $3c^3 - 4c^2d - c - cd + 3cd^2 + 4c^3 - 4c^2d + 2c =$  \_\_\_\_\_
14.  $-3c^2 - 3f^2 - 3cf + 2cf^2 + 2c^2 - c^2 + f^2 + 4cf =$  \_\_\_\_\_
15.  $-4b + 4ab - 2a - ab + 2ab - 4b - 2ab^2 - 4a =$  \_\_\_\_\_
16.  $-2a + 2c - 4a^3 + a - 3ac + 2a - 4c - 2a^3 =$  \_\_\_\_\_
17.  $4j + 2e - 3e + 2e^3 + 2j - j - 3e + 4e =$  \_\_\_\_\_
18.  $-cf^2 + 3c^3 + 2f + 2c + c + 3cf^2 - c^3 - 4f =$  \_\_\_\_\_
19.  $2a^2h - h + 4ah^2 + ah - 2ah^2 + 3a^2h + 4h + 3ah^2 =$  \_\_\_\_\_
20.  $2k + k^2n + k - 2k^2 + 3kn - 2k + k^2n + k =$  \_\_\_\_\_



## Terme vereinfachen I

Lösungen

Vereinfache die folgenden Terme.

$$1. -3h - 3e + h + 2e - 3e - 2h - 3e - 2h = \mathbf{-6h - 7e}$$

$$2. 3b + 2c + 2c - b - b - 3b + 3c + 3c = \mathbf{-2b + 10c}$$

$$3. g + 2g + 3g + 2g + 2g + 2g + 3g - g = \mathbf{14g}$$

$$4. -2d + d + 3d - 3d + 3d + 2d + d + d = \mathbf{6d}$$

$$5. h + 3b + b + 2b - 2h + h + 2b + 3b = \mathbf{11b}$$

$$6. 2f + 2f + 2f - 3i + 3f - 3f + 3f + 2f = \mathbf{11f - 3i}$$

$$7. b + 2b + b + 2i - 3b + 2b - 3b + b = \mathbf{b + 2i}$$

$$8. -2j - k - 2k - 3j + 2j + j + 2k + 2k = \mathbf{-2j + k}$$

$$9. b + 3h - 2b - 3b + 3b - b + h + b = \mathbf{-b + 4h}$$

$$10. -k + 3j + 3j + j + 3j - 3k + 2j + 3j = \mathbf{-4k + 15j}$$

$$11. dh + 3d - d^2h + 3d^2h + 4d^2h - 2dh + d - 3d^2h = \mathbf{-dh + 4d + 3d^2h}$$

$$12. -2ag^2 + 4ag + 4a^2 + 4a^3 - 4ag^2 + 3ag^2 + 3ag + a^2 = \mathbf{-3ag^2 + 7ag + 5a^2 + 4a^3}$$

$$13. 3c^3 - 4c^2d - c - cd + 3cd^2 + 4c^3 - 4c^2d + 2c = \mathbf{7c^3 - 8c^2d + c - cd + 3cd^2}$$

$$14. -3c^2 - 3f^2 - 3cf + 2cf^2 + 2c^2 - c^2 + f^2 + 4cf = \mathbf{-2c^2 - 2f^2 + cf + 2cf^2}$$

$$15. -4b + 4ab - 2a - ab + 2ab - 4b - 2ab^2 - 4a = \mathbf{-8b + 5ab - 6a - 2ab^2}$$

$$16. -2a + 2c - 4a^3 + a - 3ac + 2a - 4c - 2a^3 = \mathbf{a - 2c - 6a^3 - 3ac}$$

$$17. 4j + 2e - 3e + 2e^3 + 2j - j - 3e + 4e = \mathbf{5j + 2e^3}$$

$$18. -cf^2 + 3c^3 + 2f + 2c + c + 3cf^2 - c^3 - 4f = \mathbf{2cf^2 + 2c^3 - 2f + 3c}$$

$$19. 2a^2h - h + 4ah^2 + ah - 2ah^2 + 3a^2h + 4h + 3ah^2 = \mathbf{5a^2h + 3h + 5ah^2 + ah}$$

$$20. 2k + k^2n + k - 2k^2 + 3kn - 2k + k^2n + k = \mathbf{2k + 2k^2n - 2k^2 + 3kn}$$



## Terme vereinfachen II

Vereinfache die folgenden Terme.

1.  $3e + 2g + 2g - 2g + g + 3e - 2g + 2g =$  \_\_\_\_\_
2.  $3f + 3a + a - 2f + f + 2f + 3a + 2a =$  \_\_\_\_\_
3.  $3k + 3k + jk - 4jk + 4jk^2 - k - 2k - 4jk =$  \_\_\_\_\_
4.  $-3g^2 - 3eg - 3e^2g - g^2 + e + g + 2eg - e^2g =$  \_\_\_\_\_
5.  $2h + 3g^2 + 4g^2h - 3g^2h + 2h^2 - h - 2g^2 - 2g^2h =$  \_\_\_\_\_
6.  $3e - 4e^2 + 4b^2e - 4b + 3e - 4e + 4e^2 - 4b^2e =$  \_\_\_\_\_
7.  $2b^2 - 4be^2 + 4be + 3b^2 + 3b^3 + 2b^2 + 4be^2 + 4be =$  \_\_\_\_\_
8.  $2g - 3b^2 + bg^2 + g - 2g - g + 4b^2 - 4bg^2 =$  \_\_\_\_\_
9.  $-3c + h^2 - 3h^3 + 4h + c + c + h^2 + 2h^3 =$  \_\_\_\_\_
10.  $2k^2 + 3k - 4b^2k - k - 3bk + 2k^2 + 2k + b^2k =$  \_\_\_\_\_
11.  $-3c - 4cd - 4c^2d + 3cd - 4c^2d - 2c - 4cd + 2c^2d =$  \_\_\_\_\_
12.  $-4b + b^2f + 3b^2f + 2b + 5f^4 - 2b - 2b^2f - 3b^2f =$  \_\_\_\_\_
13.  $-3ab^3 + 2ab + ab^3 + 3b - 3a^4b - 3ab^3 + ab - 3ab^3 =$  \_\_\_\_\_
14.  $-5fj - 5f^2j^2 - 5fj^3 - f^2j^3 - 4f^2j - 5fj + f^2j^2 + fj^3 =$  \_\_\_\_\_
15.  $-2n + 3n^2 - 5nr^2 - 3nr + n^3r^2 + n + 4n^2 + nr^2 =$  \_\_\_\_\_
16.  $-5e + b^2e^3 + be^3 + 4b^2e^3 - 3b^2e - 4e + b^2e^3 - be^3 =$  \_\_\_\_\_
17.  $-ac - 3ac^3 - 2a^2c - 2a^2c^4 - 5a^2 - ac + 6ac^3 + 3a^2c =$  \_\_\_\_\_
18.  $2g + a^2g^2 + 2a^2g^2 - 6a - 2a^4g^2 - 6g + a^2g^2 - a^2g^2 =$  \_\_\_\_\_
19.  $2e^5f^2 + e^2f^4 + e^4f - ef^2 - 3e^2 - 5e^5f^2 - 2e^2f^4 + e^4f =$  \_\_\_\_\_
20.  $6d^3j^4 + 4d + 2dj^2 + d^5j^2 + 4d^4j^3 - d^3j^4 - 6d + 2dj =$  \_\_\_\_\_



## Terme vereinfachen II

Lösungen

Vereinfache die folgenden Terme.

1.  $3e + 2g + 2g - 2g + g + 3e - 2g + 2g = \mathbf{6e + 3g}$
2.  $3f + 3a + a - 2f + f + 2f + 3a + 2a = \mathbf{4f + 9a}$
3.  $3k + 3k + jk - 4jk + 4jk^2 - k - 2k - 4jk = \mathbf{3k - 7jk + 4jk^2}$
4.  $-3g^2 - 3eg - 3e^2g - g^2 + e + g + 2eg - e^2g = \mathbf{-2g - eg - 4e^2 g - g^2 + e}$
5.  $2h + 3g^2 + 4g^2h - 3g^2h + 2h^2 - h - 2g^2 - 2g^2h = \mathbf{h + g^2 - g^2h + 2h^2}$
6.  $3e - 4e^2 + 4b^2e - 4b + 3e - 4e + 4e^2 - 4b^2e = \mathbf{2e - 4b}$
7.  $2b^2 - 4be^2 + 4be + 3b^2 + 3b^3 + 2b^2 + 4be^2 + 4be = \mathbf{7b^2 + 8be + 3b^3}$
8.  $2g - 3b^2 + bg^2 + g - 2g - g + 4b^2 - 4bg^2 = \mathbf{b^2 - 3bg^2}$
9.  $-3c + h^2 - 3h^3 + 4h + c + c + h^2 + 2h^3 = \mathbf{-c + 2h^2 - h^3 + 4h}$
10.  $2k^2 + 3k - 4b^2k - k - 3bk + 2k^2 + 2k + b^2k = \mathbf{4k^2 + 4k - 3b^2k - 3bk}$
11.  $-3c - 4cd - 4c^2d + 3cd - 4c^2d - 2c - 4cd + 2c^2d = \mathbf{-5c - 5cd - 6c^2d}$
12.  $-4b + b^2f + 3b^2f + 2b + 5f^4 - 2b - 2b^2f - 3b^2f = \mathbf{-4b - b^2f + 5f^4}$
13.  $-3ab^3 + 2ab + ab^3 + 3b - 3a^4b - 3ab^3 + ab - 3ab^3 = \mathbf{-8ab^3 + 3ab + 3b - 3a^4b}$
14.  $-5fj - 5f^2j^2 - 5fj^3 - f^2j^3 - 4f^2j - 5fj + f^2j^2 + fj^3 = \mathbf{-10fj - 4f^2j^2 - 4fj^3 - f^2j^3 - 4f^2j}$
15.  $-2n + 3n^2 - 5nr^2 - 3nr + n^3r^2 + n + 4n^2 + nr^2 = \mathbf{-n + 7n^2 - 4nr^2 - 3nr + n^3r^2}$
16.  $-5e + b^2e^3 + be^3 + 4b^2e^3 - 3b^2e - 4e + b^2e^3 - be^3 = \mathbf{-9e + 6b^2e^3 - 3b^2e}$
17.  $-ac - 3ac^3 - 2a^2c - 2a^2c^4 - 5a^2 - ac + 6ac^3 + 3a^2c = \mathbf{-2ac + 3ac^3 + a^2c - 2a^2c^4 - 5a^2}$
18.  $2g + a^2g^2 + 2a^2g^2 - 6a - 2a^4g^2 - 6g + a^2g^2 - a^2g^2 = \mathbf{-4g + 3a^2g^2 - 6a - 2a^4g^2}$
19.  $2e^5f^2 + e^2f^4 + e^4f - ef^2 - 3e^2 - 5e^5f^2 - 2e^2f^4 + e^4f = \mathbf{-3e^5f^2 - e^2f^4 + 2e^4f - ef^2 - 3e^2}$
20.  $6d^3j^4 + 4d + 2dj^2 + d^5j^2 + 4d^4j^3 - d^3j^4 - 6d + 2dj = \mathbf{5d^3j^4 - 2d + 4dj^2 + d^5j^2 + 4d^4j^3}$