Aufgaben

Binomische Formeln rückwärts:

1. $9b^2 - f^2 =$

2. $4q^2 - k^2 =$

3. $h^2 + 6hj + 9j^2 =$

4. $r^2 + 4br + 4b^2 =$

5. $d^2 - 6ad + 9a^2 =$

6. $4b^2 - 12b^3f + 9b^4f^2 =$

7. $16d^4 - 16d^2 =$

Gleichungen

8. $8(5 + 9x) = 4(2 + 2x) - 96$ 8. x =

9. $2(9x - 7) = 72 - (8 + 8x)$ 9. x =

10. $\frac{1}{3}(x + 3)(x + 3) = \frac{47}{4} + x(\frac{1}{3}x + \frac{1}{4})$ 10. x =

11. $5(x - 1)(x + 2) = x(5x + 6) - 18$ 11. x =

12. $5(x - 4) = 40 - 3(6 + 3x)$ 12. x =

Aufgaben

Binomische Formeln rückwärts:

1. $9b^2 - f^2 =$ $(3b + f)(3b - f)$

2. $4q^2 - k^2 =$ $(2q + k)(2q - k)$

3. $h^2 + 6hj + 9j^2 =$ $(h + 3j)^2$

4. $r^2 + 4br + 4b^2 =$ $(r + 2b)^2$

5. $d^2 - 6ad + 9a^2 =$ $(d - 3a)^2$

6. $4b^2 - 12b^3f + 9b^4f^2 =$ $(2b - 3b^2f)^2$

7. $16d^4 - 16d^2 =$ $(4d^2 + 4d)(4d^2 - 4d)$

Gleichungen

8. $8(5 + 9x) = 4(2 + 2x) - 96$ 8. $x =$ -2

9. $2(9x - 7) = 72 - (8 + 8x)$ 9. $x =$ 3

10. $\frac{1}{3}(x + 3)(x + 3) = \frac{47}{4} + x(\frac{1}{3}x + \frac{1}{4})$ 10. $x =$ 5

11. $5(x - 1)(x + 2) = x(5x + 6) - 18$ 11. $x =$ 8

12. $5(x - 4) = 40 - 3(6 + 3x)$ 12. $x =$ 3