Oefeningen haakjes

0.1 Niveau 1

Oefening 1. Vereenvoudig. $(x, y, p, q \in \mathbb{R})$

1. $23 \cdot (1000 - 1) = \ldots\ldots$
2. $(923 + 77)/4 = \ldots\ldots$
3. $-\dfrac{2x + 4xy}{-2x} = \ldots\ldots$
4. $p - (p + q) + 2q = \ldots\ldots$

Oefening 2. Werk de haakjes uit en vereenvoudig. $(x, y, a \in \mathbb{R})$

1. $a(x + 3) - 3a = \ldots\ldots$
2. $ax + 3 + (-ax) = \ldots\ldots$
3. $2ax + 3 - (-ax) = \ldots\ldots$
4. $1 - (x - y + 1) + x = \ldots\ldots$

Oefening 3. Werk de haakjes uit. $(a \in \mathbb{R})$

1. $2(a + 3)^2 = \ldots\ldots$
2. $2(a - 3)^2 = \ldots\ldots$
3. $2(-a - 3)^2 = \ldots\ldots$

Oefening 4. Ontbind in factoren. $(x, y, a \in \mathbb{R})$

1. $x(x + 2) + 7(x + 2) = \ldots\ldots$
2. $3y(4y - 3) - 4x(4y - 3) = \ldots\ldots$
3. $(a + 1)(x + 1) - (2a - 4)(x + 1) = \ldots\ldots$
4. $5(x + 1) - (x + 1)^2 = \ldots\ldots$

0.2 Niveau 2

Oefening 5. Ontbind in factoren. $(a, b, c, d, x, y, p, q \in \mathbb{R})$

1. $18x + 24y + 30z = \ldots\ldots$
2. $20ab^3 + 30bc + 25b^2c^3\sqrt{d} = \ldots\ldots$
3. $-9x^2y - 3xy = \ldots\ldots$
4. $\dfrac{p^2q^3}{8} - \dfrac{p^2q}{2} + pq = \ldots\ldots$
5. $a - b - 3(a - b) = \ldots\ldots$
6. $xy - yz - xt + zt = \ldots\ldots$

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Oefening 6. Ontbind in factoren of vul aan. $(u, s, t \in \mathbb{R})$

1. $24st + 12t - 60ut = \dots\dots$
2. $\frac{st^2}{8} + \frac{s^2t^2}{12} + s^2t = \dots\dots$
3. $st + s + ut + u = \dots\dots$
4. $(2t - 2)(5t + 3) - (t - 1)(4t - 1) = \dots\dots$
5. $\frac{2s + 3}{2} + (2s + 3)^2 = \frac{2s + 3}{2} \cdot (\dots\dots)$
6. $\left(\frac{5s}{8}\right)(u - 1) - 5s(3u + 1) = \left(\frac{5s}{8}\right) \cdot (\dots\dots)$

Oefening 7. Ontbind in factoren. $(x, y \in \mathbb{R})$

1. $x^3 - 1 = \dots\dots$
2. $25x^2y^4 - 64 = \dots\dots$
3. $4x^2 + 24xy + 36y^2 = \dots\dots$
4. $x^2 - y^2 + 1 - 2x = \dots\dots$

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