

Namen:

Vraag 3 – VOLGORDE VAN BEWERKINGEN

Werk uit.

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$$\begin{aligned} \text{a) } 18 - 4 \cdot 3 + 2^3 &= 18 - 12 + 8 \\ &= 14 \end{aligned}$$

$$\begin{aligned} \text{b) } -(12 - 5^2) + 6 \cdot 2 &= -(12 - 25) + 12 \\ &= -(-13) + 12 \\ &= 13 + 12 = 25 \end{aligned}$$

$$\begin{aligned} \text{c) } 5a + 3 \cdot (2 - a) &= 5a + 6 - 3a \\ &= 2a + 6 \end{aligned}$$

$$\begin{aligned} \text{d) } x^2 \cdot (5x^3 - 2x^3) + 2x^5 &= x^2 \cdot 3x^3 + 2x^5 \\ &= 3x^5 + 2x^5 \\ &= 5x^5 \end{aligned}$$

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$$\begin{aligned} \text{a) } 25 - 3 \cdot 4 + 2^2 &= 25 - 12 + 4 \\ &= 17 \end{aligned}$$

$$\begin{aligned} \text{b) } 7 + 2^2(5 - 8) &= 7 + 4 \cdot (-3) \\ &= 7 - 12 \\ &= -5 \end{aligned}$$

$$\begin{aligned} \text{c) } 4b - 2 \cdot (3b - 5) &= 4b - 6b + 10 \\ &= -2b + 10 \end{aligned}$$

$$\begin{aligned} \text{d) } 3x^2 \cdot (2x^3 - x^3) + 6x^5 &= 3x^2 \cdot x^3 + 6x^5 \\ &= 3x^5 + 6x^5 \\ &= 9x^5 \end{aligned}$$

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$$\begin{aligned} \text{a) } 18 - 3 \cdot (4 + 2) + 2^3 &= 18 - 3 \cdot 6 + 8 \\ &= 18 - 18 + 8 \\ &= 8 \end{aligned}$$

$$\begin{aligned} \text{b) } -(15 - 6) + 4 \cdot 3 - 2^2 &= -9 + 12 - 4 \\ &= -1 \end{aligned}$$

$$\begin{aligned} \text{c) } 5a - 2(3 - a) + 4a &= 5a - 6 + 2a + 4a \\ &= 11a - 6 \end{aligned}$$

$$\begin{aligned} \text{d) } 2x^2 \cdot x^3 - x^2x + 2x^5 &= 2x^5 - x^3 + 2x^5 \\ &= 4x^5 - x^3 \end{aligned}$$

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$$\begin{aligned} \text{a) } 24:3 + 5 \cdot (6-2) - 3^2 &= 8 + 5 \cdot 4 - 9 \\ &= 8 + 20 - 9 \\ &= 19 \end{aligned}$$

$$\begin{aligned} \text{b) } 7 - 2(8-5) + 4^2:2 &= 7 - 2 \cdot 3 + 16:2 \\ &= 7 - 6 + 8 \\ &= 9 \end{aligned}$$

$$\begin{aligned} \text{c) } 4b - 3(2b-5) + 2b &= 4b - 6b + 15 + 2b \\ &= 15 \end{aligned}$$

$$\begin{aligned} \text{d) } 3x^2 \cdot (x^4 - x^3):x + 2x &= (3x^6 - 3x^5):x + 2x \\ &= 3x^5 - 3x^4 + 2x \end{aligned}$$

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$$\begin{aligned} \text{a) } 30:5 + 4 \cdot (7-3) - 2^3 &= 6 + 4 \cdot 4 - 8 \\ &= 6 + 16 - 8 \\ &= 14 \end{aligned}$$

$$\begin{aligned} \text{b) } -(12-18) + 5 \cdot 2 - 3 &= -(-6) + 10 - 3 \\ &= 6 + 10 - 3 \\ &= 13 \end{aligned}$$

$$\begin{aligned} \text{c) } 6y - 2(y-4) + 3y &= 6y - 2y + 8 + 3y \\ &= 7y + 8 \end{aligned}$$

$$\begin{aligned} \text{d) } 5z^2 \cdot z^3 - z^4 : z^2 + z &= 5z^5 - z^2 + z \end{aligned}$$

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$$\begin{aligned}\text{a) } 16 + 3 \cdot (8 - 5) - 2^2 &= 16 + 3 \cdot 3 - 4 \\ &= 16 + 9 - 4 \\ &= 21\end{aligned}$$

$$\begin{aligned}\text{b) } 4 - (11 - 6) \cdot 2 + 3^2 &= 4 - 5 \cdot 2 + 9 \\ &= 4 - 10 + 9 \\ &= 3\end{aligned}$$

$$\begin{aligned}\text{c) } 7k - 3 \cdot (2k - 1) + 4k &= 7k - 6k + 3 + 4k \\ &= 5k + 3\end{aligned}$$

$$\begin{aligned}\text{d) } 4m^3 : m + 2m^2 \cdot m - 6m &= 4m^2 + 2m^3 - 6m \\ &= 2m^3 + 4m^2 - 6m\end{aligned}$$

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$$\begin{aligned} \text{a) } 40:8 + 7 - 3 \cdot (5 - 3^2) &= 5 + 7 - 3 \cdot (5 - 9) \\ &= 12 - 3 \cdot (-4) \\ &= 12 + 12 = 24 \end{aligned}$$

$$\begin{aligned} \text{b) } -(15 - 9) + 5^2:5 + 4 &= -6 + 25:5 + 4 \\ &= -6 + 5 + 4 \\ &= 3 \end{aligned}$$

$$\begin{aligned} \text{c) } 3a - 4 \cdot (a - 2) + 5a &= 3a - 4a + 8 + 5a \\ &= 4a + 8 \end{aligned}$$

$$\begin{aligned} \text{d) } 2y^3 \cdot y^2 - y^4:y + 7y &= 2y^5 - y^3 + 7y \end{aligned}$$

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$$\text{a) } 14 + 6:3 \cdot 5 - 2^3 = 14 + 2 \cdot 5 - 8$$

$$= 14 + 10 - 8$$

$$= 16$$

$$\text{b) } 8 - 2(7 - 10) + 12:3 = 8 - 2 \cdot (-3) + 4$$

$$= 8 + 6 + 4$$

$$= 18$$

$$\text{c) } 9b - 2 \cdot (4 - b) + 3b = 9b - 8 + 2b + 3b$$

$$= 14b - 8$$

$$\text{d) } 6x^4:x^2 \cdot (5x^3 - 2x^3) = 6x^2 \cdot 3x^3$$

$$= 18x^5$$

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$$\begin{aligned} \text{a) } 27:3 + 5 \cdot (4-2) - 1 &= 9 + 5 \cdot 2 - 1 \\ &= 9 + 10 - 1 \\ &= 18 \end{aligned}$$

$$\begin{aligned} \text{b) } -(13-4) + 8 + 2^3:2 &= -9 + 8 + 8:2 \\ &= -1 + 4 \\ &= 3 \end{aligned}$$

$$\begin{aligned} \text{c) } 8c - 3 \cdot (c-6) + 2c &= 8c - 3c + 18 + 2c \\ &= 7c + 18 \end{aligned}$$

$$\begin{aligned} \text{d) } 7x^2 \cdot (x^3 - x^2) + 3x^2 &= 7x^5 - 7x^4 + 3x^2 \end{aligned}$$

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$$\begin{aligned} \text{a) } 36:6 + 9 - 4 \cdot 2 + 3^2 &= 6 + 9 - 8 + 9 \\ &= 16 \end{aligned}$$

$$\begin{aligned} \text{b) } -(18 - 11) + 3^2 - 2 &= -7 + 22 - 2 \\ &= 18 \end{aligned}$$

$$\begin{aligned} \text{c) } 4p - 3 \cdot (p - 8) + 5p &= 4p - 3p + 24 + 5p \\ &= 6p + 24 \end{aligned}$$

$$\begin{aligned} \text{d) } 6x^3 \cdot (2x^3 + 3x^3) + 8x^4 &= 6x^3 \cdot 5x^3 + 8x^4 \\ &= 30x^6 + 8x^4 \end{aligned}$$

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$$\begin{aligned} \text{a) } 15 + 8 : 4 \cdot 7 - 2^3 &= 15 + 2 \cdot 7 - 8 \\ &= 15 + 14 - 8 \\ &= 21 \end{aligned}$$

$$\begin{aligned} \text{b) } 9 - 2(12 - 15) + 10 : 2 &= 9 - 2 \cdot (-3) + 5 \\ &= 9 + 6 + 5 \\ &= 20 \end{aligned}$$

$$\begin{aligned} \text{c) } 7r - 2(r - 9) + 4r &= 7r - 2r + 18 + 4r \\ &= 9r + 18 \end{aligned}$$

$$\begin{aligned} \text{d) } z^7 \cdot (4z + 2z^2) : z &= (4z^8 + 2z^9) : z \\ &= 4z^7 + 2z^8 \\ &= 2z^8 + 4z^7 \end{aligned}$$