

Test je kennis t/m § 2.3

Theorie

$$3^2 \cdot 3^3 = 3^{2+3} = 3^5$$

$$3^3 \cdot 2^3 = (3 \cdot 2)^3 = 6^3$$

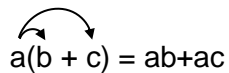
$$(3^3)^2 = 3^{3 \cdot 2} = 3^6$$

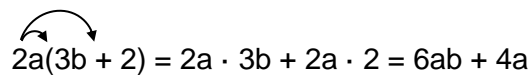
$$\frac{3^4}{3^2} = 3^{4-2} = 3^2$$

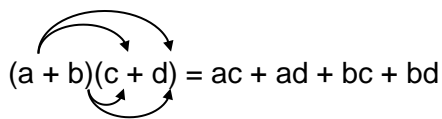
$$\frac{6^4}{3^4} = \left(\frac{6}{3}\right)^4 = 2^4$$

$$(-3^3)^2 = 3^{3 \cdot 2} = 3^6$$

$$(-3^3)^3 = -3^{3 \cdot 3} = -3^6$$


$$a(b+c) = ab+ac$$


$$2a(3b+2) = 2a \cdot 3b + 2a \cdot 2 = 6ab + 4a$$


$$(a+b)(c+d) = ac + ad + bc + bd$$

1. a. $9^7 \cdot 9^4 =$

f. $(32^2)^6 =$

b. $\frac{5^5}{5^2} =$

g. $(-5^2)^3 =$

c. $4^3 \cdot 4^3 =$

h. $((-5)^2)^3 =$

d. $1,25^6 \cdot 8^6 =$

i. $27^{\dots} = 3^{15}$

e. $\frac{69^5}{23^5} =$

j. $7^{18} = (7^{\dots})^{\dots}$

2. **Herleid:**

a. $2a + 9b + 5a + 8b =$

b. $2a \cdot 5b - 4a \cdot -9b =$

c. $x^7 \cdot y^7 \cdot x^4 \cdot y^7 =$

d. $-4x^3 \cdot (-5x^4) =$

e. $(x^4 y)^3 =$

f. $(-3ab^2)^5 =$

3. Herleid:

a. $5a - 4(2a - 8) =$

b. $2(x + 6y) - 3(2x - 3y) =$

c. $(a - 5)(b + 7) =$

d. $(a - 3b)(a + b) - (a^2 - 15ab) =$