

Toets je kennis §1.5 t/m 2.3

Theorie

$2^3 \cdot 2^4 = 2^{3+4} = 2^7$	$2^7 \cdot 3^7 = (2 \cdot 3)^7 = 6^7$	$(2^3)^2 = 2^{3 \cdot 2} = 2^6$
$5^7 : 5^3 = 5^{7-3} = 5^4$	$\frac{12^4}{3^4} = \left(\frac{12}{3}\right)^4 = 4^4$	
$(-5)^4 = 5^4$	even exponent	$((-5)^4)^5 = (-5)^{20} = 5^{20}$
$(-5)^5 = -5^5$	oneven exponent	$((-5)^3)^7 = (-5)^{21} = -5^{21}$

1.5 a. $(28^8)^4 =$

b. $(45^{10})^6 =$

1.6 a. $(-5^2)^3 =$

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

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

e. $((-7)^5)^7 =$

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

f. $((-7)^5)^6 =$

1.7 a. $8^{20} = \frac{8^{30}}{8^{\dots}}$

c. $(3 \cdot 3)^4 = 81^{\dots}$

b. $17^{14} = (17^{\dots})^{\dots}$

d. $x^2 \cdot x^{13} =$

1.8 a. $4^{12} \cdot (-12)^{12} =$

b. $-4^5 \cdot (-12)^5 =$

c. $\frac{24^3}{(-12)^3} =$

- 2.1**
- a. $11 \cdot b \cdot 15 \cdot a \cdot c =$
 - b. $5 \cdot p \cdot 4 \cdot k \cdot p \cdot p =$
 - c. $-12 \cdot x \cdot 3 \cdot y \cdot x \cdot x =$
 - d. $9x \cdot x \cdot y \cdot x \cdot y \cdot 8 \cdot z =$

- 2.2**
- a. $-7a \cdot a \cdot c \cdot -17b =$
 - b. $-3x^2 \cdot y \cdot x \cdot 5z =$
 - c. $-5 \cdot pq \cdot -2 \cdot q =$

- 2.3**
- a. $3a^2 \cdot 4b^2 \cdot a^4 \cdot b =$
 - b. $-6x^3 \cdot (-2x^5) =$
 - c. $-6 \cdot (-x)^3 \cdot (-2x^5)^2 =$