

(1) Vereenvoudig, sonder 'n sakrekenaar: (Skryf antwoorde as positiewe eksponente.)

(a)  $\left(\frac{125x^{-3}}{343y^{-3}}\right)^{\frac{-2}{3}}$

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(b)  $\frac{4 \cdot 8^{m+1} + 2^m \cdot 4^{m+1}}{32^m \cdot 4^{1-2m}}$

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(c) 
$$\frac{25^{\frac{1}{2}} \times 32^{\frac{-1}{5}} + 27^{\frac{1}{3}} \div 8^{\frac{1}{3}}}{18^{\frac{0}{3}} \times 0,5^{-2}}$$

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(2) Los op vir  $x$ :

(a)  $\sqrt[3]{8x^9} = 0,5^{-3}$

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(b)  $(2^{x+1} - 3)(2^{x+1} + 3) = 4^x - 6$

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(3) Bewys dat:  $\frac{m^{-2} - n^{-2}}{m^{-2}n - mn^{-2}} = \frac{m + n}{n^2 + mn + m^2}$

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