

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

(a) $(3x^3y^{-2})^3$

(b) $(9a^3)^{-1}(4a^3b^{-2})^0$

(c) $81^{\frac{1}{2}} \times x^{\frac{1}{4}}y^{\frac{1}{3}} \div (x^{\frac{1}{2}}y^{\frac{1}{3}})$

(d) $\frac{12^{x+1} \times 3^x}{9^{x-1} \times 4^x}$

(e)
$$\frac{2^{m-1} + 2^m}{2^{m+1}}$$

(f)
$$\frac{5^{\frac{1}{2}} \times 20^{\frac{3}{4}} \times 8^{\frac{5}{6}}}{5^{\frac{1}{4}}}$$

(g)
$$\frac{27^y - 2 \times 6^y + 1}{162^y}$$

(h)
$$\frac{3^{2p} + 3 \cdot 3^{2p}}{9^p - 2 \cdot 3^{2p} + 1}$$

(2) Los op vir x :

(a) $25^x = 125$

(b) $2^{2x+1} = -4^x + 24$

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

(c) $3x^{\frac{3}{4}} = 24$

(d) $(x^3 + 8)(2^{3x-1} - 1) = 0$
