

Exercicis de potències

$$1. \quad \frac{\left(\frac{2}{9}\right)^5 \cdot 3^{10}}{\left(\frac{3}{2}\right)^{-2}}$$

$$2. \quad \frac{b^2 \cdot b^{11}}{b^{-4}}$$

$$3. \quad \frac{b^7}{\left(\frac{1}{b}\right)^{-6} \cdot \left(\frac{1}{b}\right)^{-3} \cdot b^5}$$

$$4. \quad \frac{c^4}{c^8 \cdot \left(\frac{1}{c}\right)^{-1} \cdot \left(\frac{1}{c}\right)^5}$$

$$5. \quad \frac{b^{-1}}{\left(\frac{1}{b}\right)^{-7} \cdot b^{-9}}$$

$$6. \quad \frac{\left(\frac{1}{b}\right)^{-6}}{\left(\frac{1}{b}\right)^{-9} \cdot \left(\frac{1}{b}\right)^{-10}}$$

$$7. \quad \frac{1}{\left(\frac{1}{b}\right)^{12} \cdot \left(\frac{1}{b}\right)^6}$$

$$8. \quad \frac{\left(\frac{16}{0.1}\right)^3}{\left(\frac{0.1}{4}\right)^{-4}}$$

$$9. \quad \frac{a^{-1} \cdot \left(\frac{1}{a}\right)^3}{\left(\frac{1}{a}\right)^{-11} \cdot \left(\frac{1}{a}\right)^{-10} \cdot a^{-11}}$$

$$10. \quad \frac{\left(\frac{1}{b}\right)^5 \cdot \left(\frac{1}{b}\right)^6 \cdot b^{-7}}{\left(\frac{1}{b}\right)^3}$$

$$11. \quad \left(\frac{1}{a}\right)^{-10} \cdot a^9$$

$$12. \quad \left(\frac{1}{a}\right)^6 \cdot a^{11} \cdot a^{-11}$$

$$13. \quad \frac{\left(\frac{1}{b}\right)^{10} \cdot \left(\frac{1}{b}\right)^8}{b^{-1}}$$

$$14. \quad \frac{\left(\frac{1}{c}\right)^2}{c^{11}}$$

Solucions

1. 72 2. b^{17} 3. b^{-7} 4. 1 5. b 6. b^{-13} 7. b^{18} 8. $8/5$ 9. a^{-14}
10. b^{-15} 11. a^{19} 12. a^{-6} 13. b^{-17} 14. c^{-13}