



- 1.
- 1.1.  $3^9$
- 1.2.  $7^9$
- 1.3.  $8^9$
- 1.4.  $\left(\frac{1}{5}\right)^7$
- 1.5.  $\left(\frac{2}{3}\right)^4$
- 1.6.  $\left(\frac{11}{8}\right)^{10}$
- 1.7.  $20^{23}$
- 1.8.  $14^{49}$
- 1.9.  $\left(\frac{1}{3}\right)^{15}$
- 1.10.  $\left(\frac{4}{5}\right)^{12}$
- 1.11.  $\left(\frac{8}{9}\right)^7$
- 1.12.  $\left(\frac{1}{16}\right)^9$
- 1.13.  $5^{11}$
- 1.14.  $1^6$
- 1.15. *Por exemplo,*  $\left(\frac{2}{50}\right)^8$
- 1.16.  $\left(\frac{1}{10}\right)^4$
- 1.17.  $\left(\frac{1}{2}\right)^3$
- 1.18.  $30^{12}$
- 1.19.  $\left(\frac{6}{5}\right)^{16}$
- 1.20.  $4^{26}$
- 2.
- 2.1.  $3^5 \times 4^5 = 12^5$
- 2.2.  $2^7 \times 3^7 \times 4^7 = 24^7$
- 2.3.  $2^9 \times 6^9 = 12^9$
- 2.4.  $\left(\frac{13}{6}\right)^4 \times \left(\frac{1}{2}\right)^4 = \left(\frac{13}{12}\right)^4$
- 2.5.  $\left(\frac{3}{4}\right)^5 \times \left(\frac{8}{9}\right)^5 = \left(\frac{24}{36}\right)^5 = \left(\frac{2}{3}\right)^5$
- 2.6.  $\left(\frac{9}{5}\right)^7 \times \left(\frac{4}{3}\right)^7 = \left(\frac{36}{15}\right)^7 = \left(\frac{12}{5}\right)^7$
- 2.7.  $(7^3)^5 = 7^{15}$
- 2.8.  $(5^6)^3 = 5^{18}$
- 2.9.  $2^9 \times 2^9 \times 2^9 \times 2^9 = (2^9)^4$
- 2.10.  $\left(\frac{1}{3}\right)^4 \times \left(\frac{1}{3}\right)^4 \times \left(\frac{1}{3}\right)^4 = \left[\left(\frac{1}{3}\right)^4\right]^3 = \left(\frac{1}{3}\right)^{12}$
- 2.11.  $\left[\left(\frac{5}{2}\right)^7\right]^2 = \left(\frac{5}{2}\right)^{14}$
3. B
4. A
- 5.
- 5.1. Falsa.  $3^4 \times 2^4 = 6^4$
- 5.2. Verdadeira
- 5.3. Falsa.  $1^5 \times 7^5 = 7^5$
- 5.4. Verdadeira
- 5.5. Verdadeira
- 5.6. Falsa.  $\left(\frac{2}{3}\right)^4 \times \left(\frac{5}{3}\right)^4 = \left(\frac{10}{9}\right)^4$
- 5.7. Falsa.  $0,1^9 \times 2^9 = 0,2^9$
- 5.8. Verdadeira
- 5.9. Verdadeira
- 5.10. Falsa.  $5^3 \times 7^3 \times 35^2 = 35^3 \times 35^2 = 35^5$
- 5.11. Verdadeira
- 5.12. Falsa.  $(4^2)^3 = 4^6$
- 5.13. Falsa.  $(7^3)^8 = 7^{24}$
- 5.14. Verdadeira
- 6.
- 6.1. C
- 6.2. D