

Gabarito: Potenciação, Equações exponenciais, Funções exponenciais e Logaritmos

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1. (a) 3^6
(b) 5^3
(c) 2^7
(d) 2^3
(e) 3^5
(f) $7^{-8} = \frac{1}{7^8}$
(g) 2^6
(h) 5^{20}
(i) 1
(j) $\frac{1}{3}$
(k) $\frac{1}{5^2}$
(l) 2^3
(m) 3^2
(n) $5^0 = 1$
(o) 5^9
(p) 3^5
(q) $2^0 = 1$
2. (a) $x = 5$
(b) $x = 6$
(c) $x = 2$
(d) $x = \frac{2}{3}$
(e) $x = -\frac{1}{2}$
(f) $x = -\frac{1}{2}$
(g) $x = -2$
(h) $2x = 1 \Rightarrow x = \frac{1}{2}$
(i) $x + 1 = \frac{1}{2} \Rightarrow x = -\frac{1}{2}$
(j) $x = -\frac{1}{2}$
(k) $1 - x = 0 \Rightarrow x = 1$
(l) $-x = 2 \Rightarrow x = -2$
(m) $-2x = 3 \Rightarrow x = -\frac{3}{2}$

3. (a)
(b)
(c)
4. (a) 1
(b) 0
(c) 0
(d) 2
(e) -5
(f) -4
(g) -5
(h) $\frac{2}{3}$
(i) -1
(j) -1
(k) $-\frac{3}{2}$