Nome:

Valor: 16 • Nota: _____

Potenciação

1. Simplifique as expressões:

[6]

- (a) $144 \cdot 256$
- (b) $1024 \cdot 512$
- (c) $\frac{a^{21}}{a^{17}}$
- (d) $\frac{a^{27} a^3}{a^2 \cdot a}$
- (e) $\frac{b^7a^6}{(ab)^5}$
- (f) $\frac{20^{2022} 20}{32 \cdot 10^2}$
- 2. Simplifique as expressões:

[10]

(a)
$$\frac{\sqrt{144}}{\sqrt{3}}$$

- (b) $\sqrt{69}\sqrt{42}$
- (c) $\sqrt{8}\sqrt{8}$
- (d) $4\sqrt[3]{8}\sqrt{42}$

[2]

(e)
$$\frac{\sqrt{48} + \sqrt{27}}{\sqrt{3}}$$

(f)
$$\frac{\sqrt{160} + \sqrt{125}}{\sqrt{19+1}}$$

(g) $(123)^{\frac{3}{2}} \cdot (40425)^{-\frac{1}{5}}$

[3]