

Nome :

turma

1- Escreva em forma de expoente fracionário:

a) $\sqrt[5]{2^3} = \frac{\quad}{\quad}$

b) $\sqrt[4]{7^3} = \frac{\quad}{\quad}$

c) $\sqrt{5^3} = \frac{\quad}{\quad}$

d) $\sqrt[3]{x^2} = \frac{\quad}{\quad}$

e) $\sqrt[3]{6} = \frac{\quad}{\quad}$

f) $\sqrt{3} = \frac{\quad}{\quad}$

2- Escreva em forma de radical:

a) $5^{\frac{2}{3}} = \sqrt[\quad]{\quad}$

b) $2^{\frac{1}{3}} = \sqrt[\quad]{\quad}$

c) $3^{\frac{4}{5}} = \sqrt[\quad]{\quad}$

d) $a^{\frac{3}{4}} = \sqrt[\quad]{\quad}$

e) $x^{\frac{3}{2}} = \sqrt[\quad]{\quad}$

f) $7^{\frac{1}{2}} = \sqrt[\quad]{\quad}$

2- Simplifique, utilizando a 1.ª propriedade:

a) $\sqrt[5]{7^5} = \underline{\hspace{2cm}}$

b) $\sqrt[4]{2^4} = \underline{\hspace{2cm}}$

c) $\sqrt{5^2} = \underline{\hspace{2cm}}$

d) $\sqrt{a^2} = \underline{\hspace{2cm}}$

e) $\sqrt[3]{10^3} = \underline{\hspace{2cm}}$

f) $\sqrt[3]{35^3} = \underline{\hspace{2cm}}$

3- Simplifique, utilizando a 2.ª propriedade:

a) $\sqrt[5]{2} \cdot \sqrt[5]{7} = \sqrt[\quad]{\quad}$

b) $\sqrt[4]{2} \cdot \sqrt[4]{x} \cdot \sqrt[4]{y^3} = \sqrt[\quad]{\quad}$

c) $\sqrt{6} \cdot \sqrt{x} = \sqrt[\quad]{\quad}$

d) $\sqrt{a} \cdot \sqrt{10} = \sqrt[\quad]{\quad}$

e) $\sqrt[3]{5} \cdot \sqrt[3]{2} = \sqrt[\quad]{\quad}$

f) $\sqrt[3]{4} \cdot \sqrt[3]{5} \cdot \sqrt[3]{x} = \sqrt[\quad]{\quad}$

4- Determine as raízes:

a) $\sqrt{\frac{49}{64}} = \underline{\hspace{2cm}}$

b) $\sqrt[3]{\frac{1}{125}} = \underline{\hspace{2cm}}$

c) $\sqrt{\frac{81}{25}} = \underline{\hspace{2cm}}$

d) $\sqrt{\frac{100}{121}} = \underline{\hspace{2cm}}$

e) $\sqrt[3]{\frac{8}{27}} = \underline{\hspace{2cm}}$

f) $\sqrt{\frac{25}{144}} = \underline{\hspace{2cm}}$