

ESCOLA SALESIANA DO TRABALHO.

PROFESSORA: PATRÍCIA VAZ PEREIRA.

ALUNO(A):

TURMA:

DATA:



Exercícios (Radiciação)

01 – Calcule:

a) $\sqrt{4} =$

b) $\sqrt{49} =$

c) $\sqrt{169} =$

d) $\sqrt{9} =$

e) $\sqrt{196} =$

f) $\sqrt{25} =$

g) $\sqrt{121} =$

h) $\sqrt{225} =$

i) $\sqrt{16} =$

j) $\sqrt{64} =$

k) $\sqrt{81} =$

l) $\sqrt{144} =$

m) $\sqrt{36} =$

n) $\sqrt{100} =$

a) $\sqrt{1} = \square$

a) $\sqrt{0} = \square$

02 – Qual é o valor de:

a) $\sqrt{25-16} + \sqrt[16]{0} - \sqrt[3]{27} ?$

$\sqrt{\square} + \square - \square =$

$\square + \square - \square = \square$

03 – Calcule as raízes.

a) $\sqrt[3]{8} = \sqrt[3]{\square\square} = \square$

b) $\sqrt[4]{16} = \sqrt[4]{\square\square} = \square$

c) $\sqrt{16} = \sqrt{\square\square} = \square$

d) $\sqrt[3]{-8} = \sqrt[3]{\square\square} = \square$

e) $\sqrt[4]{625} = \sqrt[4]{\square\square} = \square$

f) $\sqrt[3]{216} = \sqrt[3]{\square\square} = \square$

g) $\sqrt[5]{-1} = \sqrt[5]{\square\square} = \square$

h) $\sqrt[3]{1000} = \sqrt[3]{\square\square} = \square$

i) $\sqrt[3]{-27} = \sqrt[3]{\square\square} = \square$

j) $\sqrt[5]{-32} = \sqrt[5]{\square\square} = \square$

03 – Efetue:

a) $\sqrt{2} \cdot \sqrt{32} = \sqrt{\quad} = \quad$

b) $\sqrt{48} : \sqrt{12} = \sqrt{\quad} = \quad$

c) $\sqrt[3]{2} \cdot \sqrt[3]{4} = \sqrt[3]{\quad} = \quad$

d) $\sqrt{50} : \sqrt{2} = \sqrt{\quad} = \quad$

e) $\sqrt{3} \cdot \sqrt{6} = \sqrt{\quad} = \quad$

f) $\sqrt[4]{32} : \sqrt[4]{2} = \sqrt[4]{\quad} = \quad$

f) $\frac{\sqrt{3} \cdot \sqrt{8}}{\sqrt{12}} = \frac{\sqrt{\quad}}{\sqrt{12}} = \sqrt{\quad}$

04 – Simplifique os radicais:

a) $\sqrt{48} = \sqrt{\quad \quad \quad} = \quad \sqrt{\quad} = \quad \sqrt{\quad}$

b) $\sqrt{40} = \sqrt{\quad \quad \quad} = \quad \sqrt{\quad \quad} = \quad \sqrt{\quad}$

c) $\sqrt[3]{72} = \sqrt[3]{\quad \quad \quad} = \quad \sqrt[3]{\quad \quad} = \quad \sqrt[3]{\quad}$

d) $\sqrt{243} = \sqrt{\quad \quad \quad \quad} = \quad \sqrt{\quad} = \quad \sqrt{\quad}$

05 – Simplifique:

a) $\sqrt{8} + \sqrt{32} + \sqrt{72} - \sqrt{50} =$

$$\sqrt{\quad \quad} + \sqrt{\quad \quad \quad} + \sqrt{\quad \quad \quad \quad} - \sqrt{\quad \quad \quad}$$

$$\quad \sqrt{\quad} + \quad \sqrt{\quad} + \quad \sqrt{\quad} - \quad \sqrt{\quad} =$$

$$\quad \sqrt{\quad} + \quad \sqrt{\quad} + \quad \sqrt{\quad} - \quad \sqrt{\quad} = \quad \sqrt{\quad}$$

b) $\sqrt{20} - \sqrt{24} + \sqrt{125} - \sqrt{54} =$

$$\begin{aligned} &\sqrt{\square\square\square} - \sqrt{\square\square\square\square} + \sqrt{\square\square\square} - \sqrt{\square\square\square\square} \\ &\square\sqrt{\square} - \square\sqrt{\square\square} + \square\sqrt{\square} - \square\sqrt{\square\square} \\ &\square\sqrt{\square} - \square\sqrt{\square} \end{aligned}$$

$$\frac{\sqrt[3]{16} + \sqrt[3]{54}}{\sqrt[3]{125}} = \frac{\sqrt[3]{\square\square\square} + \sqrt[3]{\square\square\square}}{\sqrt[3]{\square\square}} = \frac{\square\sqrt[3]{\square} + \square\sqrt[3]{\square}}{\square} = \frac{\square\sqrt[3]{\square}}{\square} = \sqrt[3]{\square}$$

06 – Calcule:

a) $\sqrt[3]{\sqrt{64}} = \sqrt[3]{\square} = \sqrt[3]{\square\square} = \square$

b) $\sqrt{\sqrt{81}} = \sqrt{\square} = \sqrt{\square\square} = \square$

c) $\sqrt[5]{\sqrt{1024}} = \sqrt[5]{\square} = \sqrt[5]{\square\square} = \square$