

# CURSO MENTOR

www.cursopredilecao.com.br

**Professor:** Leonardo Santos

**Tema:** Frações II

**Data:** 16 de setembro de 2013

**Q1.** Resolva:

a)  $\left(\frac{1}{2}\right)^2 + 2$

b)  $\left[\left(\frac{2}{5}\right)^2 - \frac{1}{3}\right]^2$

c)  $\frac{1}{3} \times \frac{4}{5} + 3 \div \left(\frac{5}{7}\right)^2$

d)  $\left(1 + \frac{1}{1 + \frac{1}{2}}\right)^{-2}$

e)  $\left[\left(\frac{1}{2} - \frac{1}{3}\right)^{-1} + \frac{1}{4}\right]^{-1} - \frac{1}{5} + \frac{1}{6}$

f)  $\left[\left(\frac{1}{2}\right)^3 - \left(\frac{1}{3}\right)^2\right] \div \left(1 - \frac{3}{4}\right)^{-1}$

g)  $\frac{1}{3} - \frac{2}{3} \times \left(\frac{4}{5}\right)^{-2} + \left(\frac{2}{11}\right)^{-1} \div \frac{22}{4}$

h)  $\frac{\left\{\left[\left(\frac{1}{2}\right)^3 - \left(\frac{3}{2}\right)^{-1}\right] \times \left(\frac{1}{2}\right)^2\right\}}{\left[\left(-2\frac{3}{4}\right)^{-1} + 1\right]}$

**Q2.** Resolva:

a)  $\sqrt{\frac{16}{25}} + \frac{11}{5}$

b)  $\sqrt{\left[\left(\frac{2}{3}\right)^2 + \frac{117}{9}\right]} + \frac{3}{11}$

c)  $\sqrt{\frac{16}{49}} + \sqrt{\frac{9}{49}} - \sqrt{\frac{16}{49} + \frac{9}{49}}$

d)  $\frac{1}{3} \times \sqrt{\frac{1}{2}} + \frac{1}{2} \times \sqrt{\frac{1}{3}}$

e)  $\sqrt[3]{\frac{8}{27}} - \frac{1}{3} \times \frac{5}{2} + \sqrt{\left[\frac{2}{5} \div \left(\frac{5}{2}\right)^{-1}\right]}$

f)  $\sqrt[3]{\left[\sqrt{\left(\frac{1}{2} \times \frac{2}{3} \times \frac{3}{4}\right)} \div \frac{4}{343}\right]} + \frac{1}{5}$

g)  $\sqrt{\frac{36}{81}} \div \frac{7}{11} \times \frac{4}{5} + \frac{3}{7} - \frac{25}{3}$

GABARITO

**Q1.**

a)  $\frac{9}{4}$

d)  $\frac{9}{25}$

g)  $\frac{7}{24}$

b)  $\frac{169}{5625}$

e)  $\frac{19}{150}$

c)  $\frac{461}{75}$

f)  $\frac{1}{288}$

h)  $-\frac{143}{672}$

**Q2.**

a) 3

d)  $\frac{3\sqrt{2}+2\sqrt{3}}{6\sqrt{6}}$

f)  $\frac{37}{10}$

b)  $\frac{130}{33}$

c)  $\frac{7}{7}$

e)  $\frac{7}{18}$

g)  $-\frac{106}{15}$