



GABARITO - ATIVIDADES DE ÁLGEBRA

1) Calcule o valor das expressões:

$$a) \frac{(0,2)^{-1} + \frac{1}{5}}{\frac{1}{3} + \frac{1}{4} + \frac{1}{5}} = \frac{\frac{26}{5}}{\frac{20+15+12}{60}} = \frac{312}{47}$$

$$b) \left(\frac{(-0,7)^2 + (-\frac{7}{10})}{2} \right) : \frac{(0,021)}{2} = \frac{\frac{49-70}{100}}{2} \cdot \frac{2}{\frac{21}{100}} = -1$$

$$c) \frac{(0,5)^3 \times 2^3}{\frac{1}{4} + \frac{3}{5}} = \frac{1}{\frac{5+12}{20}} = \frac{20}{17}$$

$$d) \frac{(7,45)^0 + (-0,4)^3}{-1 + \left(\frac{1}{2}\right)^2} = \frac{1 - \frac{8}{125}}{-\frac{3}{4}}$$

2) Resolva a seguinte expressão:

$$\left[\frac{3 \cdot \left(\frac{-3}{4}\right)^{-2} + 6 \cdot \left(\frac{3^{-1}}{4}\right) - 4}{7 \cdot \left(\frac{-3}{4}\right)^{-1} + 2} \right]^{-1} + 4 =$$

$$\left[\frac{\frac{16}{3} + \frac{1}{2} - 4}{-\frac{28}{3} + 2} \right]^{-1} + 4 = \left[\frac{11}{6} \cdot \left(-\frac{3}{22}\right) \right]^{-1} + 4 = -4 + 4 = 0$$