

total 10 puntos

Guía 2: Operatoria con racionales.

Ejercicio e, ítem III.

$$a = 0,\overline{2}, b = \frac{1}{2}, c = \frac{3}{4}$$

$$\frac{\frac{a}{b} + \frac{b}{a}}{1 - \frac{2b}{c}} = \frac{\frac{0,\overline{2}}{\frac{1}{2}} + \frac{\frac{1}{2}}{0,\overline{2}}}{1 - \frac{2 \cdot \frac{1}{2}}{\frac{3}{4}}} = \frac{\frac{\frac{2}{9}}{\frac{1}{2}} + \frac{\frac{1}{2}}{\frac{2}{9}}}{1 - \frac{2 \cdot \frac{1}{2}}{\frac{3}{4}}} =$$

$$= \frac{\frac{4}{9} + \frac{9}{4}}{1 - \frac{1}{\frac{3}{4}}} = \frac{\frac{16}{36} + \frac{81}{36}}{1 - \frac{4}{3}} = \frac{\frac{97}{36}}{-\frac{1}{3}}$$

$$= \frac{97}{36} \div -\frac{1}{3} = \frac{97}{\cancel{36}^{12}} \cdot \frac{-\cancel{3}^1}{1} = \frac{-97}{12}$$