

$$\left[\frac{0,4 + \frac{1}{2}}{\frac{1}{5} - 0,5} \right] + \left[2 - \frac{1}{2} \right] : \frac{1}{4}$$

$$= \frac{\frac{4}{10} + \frac{1}{2}}{\frac{1}{5} - \frac{5}{10}} + \left(2 - \frac{\frac{3}{2}}{\frac{2}{1}} \right) : \frac{1}{4} =$$

$$= \frac{\frac{9}{10}}{\frac{-3}{10}} + \left(2 - \frac{3}{4} \right) : \frac{1}{4} =$$

$$= -3 + \frac{5}{4} \cdot \frac{4}{1} = -3 + 5 = \underline{\underline{2}}$$

$$0,4 + \frac{0,1}{1 + \frac{0,9}{1 + \frac{0,2}{0,1}}}$$

||
2

$$= 0,4 + \frac{0,1}{1 + \frac{0,9}{3}} = 0,3$$

$$= 0,4 + \frac{0,1}{1,3}$$

$$= \frac{4}{10} + \frac{1}{13} = \frac{52}{130} + \frac{10}{130} = \frac{62}{130}$$

$$= \frac{31}{65}$$

$$\frac{\left(1 - \frac{1}{2} - 2 \frac{1}{4} \right)^2}{\left(\frac{1}{2} \right)^3 + 1} + 0,1\bar{4}$$

||
 $\frac{13}{90}$

$$= \frac{\left(\frac{3}{2} - \frac{9}{4} \right)^2}{\frac{1}{8} + 1} + \frac{13}{90} = \frac{\left(-\frac{3}{4} \right)^2}{\frac{9}{8}} + \frac{13}{90} =$$

$$= \frac{\frac{9}{16}}{\frac{9}{8}} + \frac{13}{90} = \frac{4}{2} + \frac{13}{90} = \frac{45}{90} + \frac{13}{90}$$

$$= \frac{58}{90} = \underline{\underline{\frac{29}{45}}}$$