035 $\dfrac{\left(1-\frac{1}{3}\right)-\left(6-\frac{1}{7}\right)}{\left(\frac{1}{2}+\frac{1}{3}\right)-\left(\frac{1}{3}-\frac{1}{4}\right)}$ 1/2/3ESO

RESOLUCIÓN

Vamos a realizarlo por 2 métodos:

$$= \frac{\frac{3-1}{3}-\frac{42-1}{7}}{\frac{3+2}{6}-\frac{4-3}{12}} =$$

$$= \frac{\frac{2}{3}-\frac{41}{7}}{\frac{5}{6}-\frac{1}{12}} = \frac{\frac{14-123}{21}}{\frac{10-1}{12}} =$$

$$= \frac{\frac{-109}{21}}{\frac{9}{12}} = \frac{-109}{21} : \frac{9}{12} = \frac{-109\cdot 3\cdot 4}{3\cdot 3\cdot 3\cdot 7} =$$

$$= \frac{1-\frac{1}{3}-6+\frac{1}{7}}{\frac{1}{2}+\frac{1}{3}-\frac{1}{3}+\frac{1}{4}} =$$

$$= \frac{21-7-126+3}{\frac{21}{2+1}} = \frac{\frac{-109}{21}}{\frac{3}{4}} =$$

$$= \frac{-109}{21} : \frac{3}{4} =$$

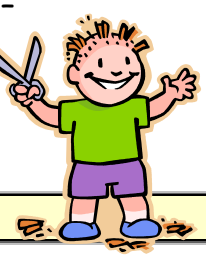
= - 436/63

036 $\dfrac{4}{3} - \dfrac{1}{1-\frac{1}{1-\frac{1}{2}}}$ 1/2/3ESO

RESOLUCIÓN

$$= \frac{4}{3} - \frac{1}{1-\frac{1}{\frac{2-1}{2}}} = \frac{4}{3} - \frac{1}{1-\frac{1}{\frac{1}{2}}} = \frac{4}{3} - \frac{1}{1-1:\frac{1}{2}} = \frac{4}{3} - \frac{1}{1-2} =$$

$$= \frac{4}{3} - \frac{1}{-1} = \frac{4}{3} + 1 = \frac{4+3}{3} =$$



= 7/3

037 $\dfrac{1}{3} - \dfrac{1}{2-\frac{1}{2-\frac{1}{3}}}$ 1/2/3ESO

RESOLUCIÓN

$$= \frac{1}{3} - \frac{1}{2-\frac{1}{\frac{6-1}{3}}} = \frac{1}{3} - \frac{1}{2-\frac{1}{\frac{5}{3}}} = \frac{1}{3} - \frac{1}{2-1:\frac{5}{3}} =$$

$$= \frac{1}{3} - \frac{1}{2-\frac{3}{5}} = \frac{1}{3} - \frac{1}{\frac{10-3}{5}} = \frac{1}{3} - \frac{5}{7} = \frac{7-15}{21} = \frac{-8}{21}$$

= - 8/21

038 $\dfrac{2-\left(-3\cdot\left(\frac{4}{3}-\frac{1}{2}\right)\right)}{1+\frac{1}{1+\frac{1}{3}}}$ 1/2/3ESO

RESOLUCIÓN

$$= \frac{2-\left(-3\cdot\left(\frac{8-3}{6}\right)\right)}{1+\frac{1}{\frac{3+1}{3}}} = \frac{2-\left(-3\cdot\frac{5}{6}\right)}{1+\frac{1}{\frac{4}{3}}} = \frac{2-\left(-\frac{5}{2}\right)}{1+1:\frac{4}{3}} = \frac{2+\frac{5}{2}}{1+\frac{3}{4}} = \frac{\frac{4+5}{2}}{\frac{4+3}{4}} = \frac{\frac{9}{2}}{\frac{7}{4}} = \frac{9}{2}:\frac{7}{4} = \frac{36}{14} =$$

= 18/7 = $2\frac{4}{7}$ = 2.571428571...

039

$$\frac{\frac{7}{3}-\frac{\frac{1}{3}+\frac{2}{3}}{1-\frac{3}{2}}}{2-\frac{3}{4}\cdot\left(5+\frac{8}{9}\right)}\cdot 2$$

1/2/3ESO

RESOLUCIÓN

$$= \frac{\frac{7}{3}-\frac{\frac{3}{3}}{\frac{2-3}{2}}}{2-\frac{3}{4}\cdot\left(\frac{45+8}{9}\right)}\cdot 2 = \frac{\frac{7}{3}-\frac{1}{\frac{-1}{2}}}{2-\frac{3}{4}\cdot\left(\frac{53}{9}\right)}\cdot 2 =$$

2 métodos de resolución:

$$= \frac{\frac{7}{3}-1:\frac{-1}{2}}{2-\frac{3\cdot 53}{4\cdot 9}}\cdot 2 = \frac{\frac{7}{3}-\frac{1\cdot 2}{-1}}{2-\frac{159}{36}}\cdot 2 =$$

$$= \frac{\frac{7}{3}+\frac{2}{1}}{2-\frac{159}{36}}\cdot 2 = \frac{\frac{7+6}{3}}{\frac{72-159}{36}}\cdot 2 = \frac{\frac{13}{3}}{\frac{-87}{36}}\cdot 2 =$$

2 métodos de resolución:

$$= \frac{13}{3}:\frac{-87}{36}\cdot 2 = \frac{13\cdot 36}{-87\cdot 3}\cdot 2 =$$

$$= \frac{13\cdot 36}{-87\cdot 3}\cdot 2 = \frac{13\cdot 36\cdot 2}{-87\cdot 3} = \frac{936}{-261} = \frac{-104}{29}$$

= - 104/29

041

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

1/2/3ESO

RESOLUCIÓN

$$= \frac{3}{2}+\frac{2}{3}\left(\frac{\frac{8-1}{4}}{\frac{10-1}{2}}-\frac{\frac{2-5}{5}}{\frac{1+15}{5}}\right) = \frac{3}{2}+\frac{2}{3}\left(\frac{\frac{7}{4}}{\frac{9}{2}}-\frac{\frac{-3}{5}}{\frac{16}{5}}\right) = \frac{3}{2}+\frac{2}{3}\left(\frac{7}{4}:\frac{9}{2}-\frac{-3}{5}:\frac{16}{5}\right) =$$

$$= \frac{3}{2}+\frac{2}{3}\left(\frac{14}{36}-\frac{-3}{16}\right) = \frac{3}{2}+\frac{2\cdot 14}{3\cdot 36}-\frac{-2\cdot 3}{3\cdot 16} =$$

$$= \frac{3}{2}+\frac{2\cdot 7\cdot 2}{3\cdot 2\cdot 3\cdot 2\cdot 3}-\frac{-2\cdot 3}{3\cdot 8\cdot 2} = \frac{3}{2}+\frac{7}{3\cdot 3\cdot 3}-\frac{-1}{8} =$$

$$= \frac{324+56+27}{216} = \frac{407}{216}$$