

Operar y simplificar:

a) $\left(\frac{1}{3}-1\right)\cdot\left(2-3:\frac{2}{5}\right)-\left(\frac{1}{2}-\frac{5}{3}:\frac{15}{9}\right)\cdot\frac{1}{2}$

b) $\left(\frac{1}{3}-1+\frac{2}{4}\right):\left(\frac{1}{3}-\frac{2}{4}+3\right)-2+\frac{7}{3}:4$

c) $2\cdot\left(\frac{9}{2}-\frac{4}{5}:\frac{1}{10}\right)-\left(\frac{1}{3}-\frac{3}{4}\cdot\frac{2}{3}\right)-3$

d) $\left[2-\left(\frac{4}{3}-\frac{5}{6}+\frac{3}{2}\right)\cdot 4\right]-\left(2-\frac{3}{5}+1\right)\cdot 10$

e) $\frac{1}{3}:\left(\frac{2}{5}\cdot 3\right)\cdot\left(\frac{1}{6}-2\right)-2\cdot\left(\frac{2}{5}-3\right)$

f) $\frac{7}{4}-\left[\left(\frac{1}{2}+\frac{3}{5}\right)\cdot\frac{1}{3}-2\cdot\frac{1}{3}\right]:\left(\frac{7}{30}-1\right)$

g) $\frac{7}{3}:\left[\frac{2}{5}\cdot\left(\frac{1}{3}-2+\frac{1}{5}\right)\right]+\frac{3}{4}-\left(5+\frac{4}{3}:4\right)$

Soluciones

a) $\frac{47}{12}$

b) $\frac{-301}{204}$

c) $\frac{-59}{6}$

d) -30

e) $\frac{2533}{540}$

f) $\frac{125}{92}$

g) $\frac{-565}{66}$