Idea. Para comparar fracciones se lleva el numerador o denominador al común múltiplo.

Problemas

4.34) $\frac{3}{5} \circ \boxed{\frac{4}{5}}$?.

4.35) $\frac{3}{5} \circ \frac{7}{10}$? $\quad \frac{3}{5} = \frac{2 \cdot 3}{2 \cdot 5} = \frac{6}{10}$

$\frac{6}{10} \circ \boxed{\frac{7}{10}}$

4.36) (a) $\frac{5}{7} \circ \boxed{\frac{8}{11}}$? $\quad \frac{8 \cdot 5}{8 \cdot 7} = \frac{40}{56}$

$\frac{40}{56} \circ \frac{40}{55} \qquad \frac{5 \cdot 8}{5 \cdot 11} = \frac{40}{55}$

(b) $\boxed{\frac{5}{6}} \circ \frac{7}{9}$? $\qquad \frac{15}{18} \circ \frac{14}{18}$

4.37) $\frac{2}{7} \circ \boxed{\frac{2}{5}}$

4.38) $-\frac{17}{14} \circ \boxed{-\frac{41}{35}}$?

$-\frac{85}{70} \circ -\frac{82}{70}$

4.39) $\boxed{\frac{541}{534}} \circ \frac{399}{401}$?

Ejercicios

4.6.1) a) $\frac{3}{2}$, $\boxed{\frac{7}{5}}$

$\frac{15}{10}$, $\frac{14}{10}$

b) $\frac{1}{2}$, $\boxed{-\frac{3}{4}}$

c) $-\frac{2}{5}$, $\boxed{-\frac{3}{5}}$

4.6.2) a) $\frac{1}{2}$, $\frac{3}{4}$, $\frac{5}{12}$

$\frac{6}{12}$, $\frac{9}{12}$, $\frac{5}{12}$

$\boxed{\frac{3}{4} > \frac{1}{2} > \frac{5}{12}}$

b) $\frac{3}{4}$, $\frac{2}{3}$, $\frac{5}{8}$

$\frac{18}{24}$, $\frac{16}{24}$, $\frac{15}{24}$

$\boxed{\frac{3}{4} > \frac{2}{3} > \frac{5}{8}}$

c) $-\frac{5}{4}$, -3 , $\frac{5}{2}$, $-\frac{13}{3}$

$\boxed{\frac{5}{2} > -\frac{5}{4} > -3 > -\frac{13}{3}}$

4.6.3) $\boxed{-2}$ -1 0 1 2

4.6.4) $\boxed{\frac{3}{2011}}$ o $\frac{3}{2012}$

4.6.5) $\boxed{\frac{19}{30}}$ ○ $\frac{22}{35}$

$\text{lcm}(30,35) = 5\,\text{lcm}(6,7)$

$= 210$

$\frac{133}{210}$ ○ $\frac{132}{210}$

$$\begin{array}{r} 6 \\ 19 \\ \times\ 7 \\ \hline 133 \end{array}$$

$$\begin{array}{r} 1 \\ 22 \\ \times\ 7 \\ \hline 154 \end{array}$$

$$\begin{array}{r} 1 \\ 22 \\ \times\ 6 \\ \hline 132 \end{array}$$

4.6.6) $\boxed{\frac{506}{101}}$ ○ $\frac{509}{102}$

$\frac{506}{101} = 5\frac{1}{101}$ $\qquad$ $\frac{509}{102} < 5$