

Idea. Para Comparar Fracciones se lleva el Numerador o denominador al común múltiplo.

Problemas

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

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

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

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

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

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

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

4.39) $\boxed{\frac{541}{539}} < \frac{399}{401} ?$

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

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

Ejercicios

4.6.1)

a) $\frac{3}{2}$,

$$\frac{7}{5}$$

b) $\frac{1}{2}$,

$$-\frac{3}{4}$$

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

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

$$-\frac{3}{5}$$

4.6.2)

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

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

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

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

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

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

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

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

4.6.3)

$$-2$$

-1

0

1

2

4.6.4)

$$\frac{3}{2011}$$

o

$$\frac{3}{2012}$$

4.6.5)

$$\boxed{\frac{19}{30}}$$

0

$$\frac{22}{35}$$

↓

$$\frac{133}{210}$$

↓

$$\frac{132}{210}$$

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

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

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

4.6.6)

$$\boxed{\frac{506}{101}}$$

0

$$\frac{509}{102}$$

$$\frac{506}{101} = 5 \frac{1}{101}$$

$$\frac{509}{102} < 5$$

$$\begin{aligned} \text{lcm}(30, 35) &= 5 \text{lcm}(6, 7) \\ &= 210 \end{aligned}$$