Exercise 4B

(iv)

$\frac{-7}{9}, \frac{-5}{8}$

L. C. M. of 9 and 8 is 72.

3	9,8
3	3,8
2	1,8
2	1,4
2	1,2
	1,1

$\frac{-7\times8}{9\times8} = \frac{-56}{72}$

$\frac{-5\times9}{8\times9} = \frac{-45}{72}$

$-56 < -45$

$\frac{-7}{9} < \frac{-5}{8}$

(v) $\frac{4}{-5}, \frac{-7}{8}$

We will convert each negative denominator into positive.

$\frac{4\times-1}{-5\times-1} = \frac{-4}{5}$

L. C. M. of 5 and 8 is 40.

2	5,8
2	5,4
2	5,2
5	5,1
	1,1

$\frac{-4\times8}{5\times8} = \frac{-32}{40}$

$\frac{-7\times5}{8\times5} = \frac{-35}{40}$

$-32 > -35$

$\frac{-4}{5} > \frac{-7}{8}$

(vi) $\frac{9}{-13}, \frac{7}{-12}$

We will convert each negative denominator into positive.

$\frac{9\times-1}{-13\times-1} = \frac{-9}{13}$

$\frac{7\times-1}{-12\times-1} = \frac{-7}{12}$

L. C. M. of 13 and 12 is 156.

$\frac{-9\times12}{13\times(-12)} = \frac{-108}{156}$

$\frac{-7\times13}{(-12)\times13} = \frac{-91}{156}$

$-108 < -91$

$\frac{9}{-13} < \frac{7}{-12}$

Q4

Answer :

(i) $\frac{-3}{7} > \frac{-6}{13}$

L. C. M. of 7 and 13 is 91.

$\frac{-3\times13}{7\times13} = \frac{-39}{91}$

$\frac{-6\times7}{13\times7} = \frac{-42}{91}$

$\frac{-39}{91} > \frac{-42}{91}$

(ii) $\frac{5}{-13} = \frac{-35}{91}$

L. C. M. of 13 and 91 is 91.

13	13,91
7	1,7
	1,1

$\frac{5\times(-7)}{-13\times(-7)} = \frac{-35}{91}$

(iii) $-2 > \frac{-13}{5}$

L. C. M of 1 and 5 is 5.

$\frac{-2\times5}{1\times5} = \frac{-10}{5}$

$\frac{-13\times1}{5\times1} = \frac{-13}{5}$

$\frac{-10}{5} > \frac{-13}{5}$

********** END **********