

EXERCISE 5.5

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1. Find six rational numbers between $(-4/8)$ and $(3/8)$

Solution:

We know that between -4 and -8, below mentioned numbers will lie
-3, -2, -1, 0, 1, 2.

According to definition of rational numbers are in the form of (p/q) where q not equal to zero.

Therefore six rational numbers between $(-4/8)$ and $(3/8)$ are
 $(-3/8), (-2/8), (-1/8), (0/8), (1/8), (2/8), (3/8)$

2. Find 10 rational numbers between $(7/13)$ and $(-4/13)$

Solution:

We know that between 7 and -4, below mentioned numbers will lie
-3, -2, -1, 0, 1, 2, 3, 4, 5, 6.

According to definition of rational numbers are in the form of (p/q) where q not equal to zero.

Therefore six rational numbers between $(7/13)$ and $(-4/13)$ are
 $(-3/13), (-2/13), (-1/13), (0/13), (1/13), (2/13), (3/13), (4/13), (5/13), (6/13)$

3. State true or false:

- (i) Between any two distinct integers there is always an integer.
- (ii) Between any two distinct rational numbers there is always a rational number.
- (iii) Between any two distinct rational numbers there are infinitely many rational numbers.

Solution:

(i) False

Explanation:

Between any two distinct integers not necessary to be one integer.

(ii) True

Explanation:

According to the properties of rational numbers between any two distinct rational numbers there is always a rational number.

(iii) True

Explanation:

According to the properties of rational numbers between any two distinct rational numbers there are infinitely many rational numbers.



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