

Exercise 76

Distance Find the distance between the given numbers.

$$(a) \frac{7}{15} \text{ and } -\frac{1}{21} \quad (b) -38 \text{ and } -57 \quad (c) -2.6 \text{ and } -1.8$$

Solution

The distance between the numbers is the absolute value of their difference.

$$(a) \left| \frac{7}{15} - \left(-\frac{1}{21} \right) \right| = \left| \frac{18}{35} \right| = \frac{18}{35}$$

$$(b) |-38 - (-57)| = |19| = 19$$

$$(c) |-2.6 - (-1.8)| = |-0.8| = 0.8$$