

Exercise 34

Inequalities Place the correct symbol ($<$, $>$, or $=$) in the space.

(a) $\frac{2}{3}$ 0.67 (b) $\frac{2}{3}$ -0.67 (c) $|0.67|$ $|-0.67|$

Solution**Part (a)**

$2/3$ is $0.666\dots$, which is smaller than 0.67 .

$$\frac{2}{3} < 0.67$$

Part (b)

Any positive number is greater than any negative number.

$$\frac{2}{3} > -0.67$$

Part (c)

Both sides evaluate to 0.67 .

$$|0.67| = |-0.67|$$