

ANSWERS TO THE FIRST QUIZ

1. Which of the following is larger? Which one has the larger absolute value?

(A)  $(-4) + (-3)$  (B)  $(-4) - (-3)$ .

*Solution.* We have

$$(-4) + (-3) = -7$$

while

$$(-4) - (-3) = (-4) + (+3) = -1$$

So (B) is larger, and (A) has the larger absolute value. □

2. Evaluate:  $\left(-\frac{3}{7}\right) + \left(\frac{5}{7}\right)$ .

*Solution.*

$$\left(-\frac{3}{7}\right) + \left(\frac{5}{7}\right) = \frac{2}{7}$$

□

3. Evaluate  $2 - \left(-\frac{7}{8}\right)$ .

*Solution.*

$$\begin{aligned} 2 - \left(-\frac{7}{8}\right) &= \frac{16}{8} - \left(-\frac{7}{8}\right) \\ &= \frac{16}{8} + \left(+\frac{7}{8}\right) \\ &= \frac{23}{8} \end{aligned}$$

□

4. Evaluate (A)  $(-6) - 4$  (B)  $|-6| - 4$

*Solution.*

$$(A) (-6) - 4 = -10$$

while

$$(B) |-6| - 4 = 6 - 4 = 2$$

□