

## 2

## CHAPTER REVIEW

## 2.2 Add Real Numbers

pp. 74–76

## EXAMPLE

Find the sum.

- a.  $-3.6 + (-5.5) = -(|-3.6| + |-5.5|)$  **Rule of same signs**  
 $= -(3.6 + 5.5)$  **Take absolute values.**  
 $= -9.1$  **Add.**
- b.  $16.1 + (-9.3) = |16.1| - |-9.3|$  **Rule of different signs**  
 $= 16.1 - 9.3$  **Take absolute values.**  
 $= 6.8$  **Subtract.**

## EXERCISES

Find the sum.

13.  $-2 + 5$                       14.  $-6 + (-4)$                       15.  $6.2 + (-9.7)$
16.  $-4.61 + (-0.79)$                       17.  $-\frac{4}{7} + \left(-\frac{9}{14}\right)$                       18.  $-\frac{4}{5} + \frac{11}{12}$
19. **BUSINESS** A company has a profit of \$2.07 million in its first year,  $-\$1.54$  million in its second year, and  $-\$0.76$  million in its third year. Find the company's total profit for the three years.

## EXAMPLES

## 1, 2, and 4

on pp. 74–76  
for Exs. 13–19

## 2.3 Subtract Real Numbers

pp. 80–81

## EXAMPLE

Find the difference.

- a.  $12 - 19 = 12 + (-19)$  **Add the opposite of 19.**  
 $= -7$  **Simplify.**
- b.  $8.2 - (-1.6) = 8.2 + 1.6$  **Add the opposite of -1.6.**  
 $= 9.8$  **Simplify.**

## EXERCISES

Find the difference.

20.  $-8 - 3$                       21.  $1 - 11$                       22.  $7.7 - 16.3$
23.  $-20.3 - (-14.2)$                       24.  $\frac{7}{3} - \frac{11}{3}$                       25.  $-\frac{4}{9} - \frac{5}{12}$
- Evaluate the expression when  $x = 2$  and  $y = -3$ .
26.  $(x - 7) + y$                       27.  $\frac{3}{2} - x - y$                       28.  $y - (2.4 - x)$

## EXAMPLES

## 1 and 2

on p. 80  
for Exs. 20–28