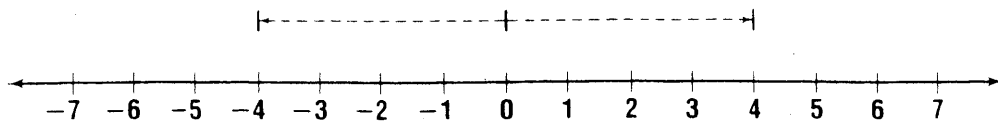


## Subtracting Integers

An integer and its **opposite** are the same distance from 0 on a number line.  
4 and  $-4$  are opposites.



The sum of an integer and its opposite is 0.  $-4 + 4 = 0$

To subtract an integer, add its opposite.

**Examples 1** Solve  $4 - 8 = y$ .

$$\begin{aligned} 4 - 8 &= y && \text{To subtract 8,} \\ 4 + (-8) &= y && \text{add } -8. \\ -4 &= y \end{aligned}$$

**2** Solve  $4 - (-4) = x$ .

$$\begin{aligned} 4 - (-4) &= x && \text{To subtract } -4, \\ 4 + 4 &= x && \text{add 4.} \\ 8 &= x \end{aligned}$$

**Solve each equation.**

1.  $b = 16 - (-3)$

2.  $n = -8 - 25$

3.  $w = -11 - (-6)$

4.  $-19 - (-3) = h$

5.  $65 - (-45) = k$

6.  $-19 - 20 = c$

7.  $s = 100 - (-72)$

8.  $z = -44 - (-33)$

9.  $d = 89 - 17$

10.  $-80 - (-35) = p$

11.  $98 - (-90) = f$

12.  $-75 - 23 = g$