

**Extra Practice****3.2**

Name \_\_\_\_\_

In 1–12, solve the equation by using two or more transformations.

1.  $2x + 3 = 11$

2.  $3x - 1 = 8$

3.  $5 = 5x - 20$

4.  $\frac{1}{2}x + 3 = -4$

5.  $6 = \frac{1}{3}x + 4$

6.  $-2 = 2x + 5$

7.  $-3 + 7x = -17$

8.  $2 - 4x = 18$

9.  $\frac{5}{2} = \frac{3}{2} - x$

10.  $-\frac{1}{2}x + 7 = 1$

11.  $8 = 4 + 2x$

12.  $\frac{2}{3}x - \frac{2}{3} = 0$

In 13–24, solve the equation by simplifying both sides and then using transformations to isolate the variable.

13.  $2x + 3x = 5$

14.  $10x - 3x = 20 + 1$

15.  $\frac{1}{4}x - x = -15$

16.  $3x + 2(x + 5) = 0$

17.  $2(x - 4) = 2$

18.  $\frac{1}{3}(x + 6) = 1$

19.  $10 = \frac{1}{2}(4x + 8)$

20.  $2(x - 1) + 3(2x + 1) = -7$

21.  $4 = \frac{2}{3}x + 9 + \frac{1}{3}x$

22.  $5x + 4 - 8x = 13$

23.  $2 - 3(2 - x) = 8$

24.  $17 = 2(2x + 9)$