7.2 Solving Equations Using Addition and Subtraction

Write the word sentence as an equation. Then solve the equation.
1. 12 less than a number r is 19.
2. A number r increased by 12 is 38.
3. 10 is the difference of a number w and 8.
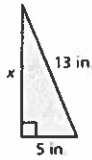4. 98 is the sum of a number g and 68.

Solve the equation.
5. $b + 8 + 12 = 32$
6. $w + 5 - 1 = 21$
7. $m + 19 + 25 = 102$
8. $r - 5 = 12 + 8$
9. $9 + 55 = 12 + r$
10. $33 + 16 = f - 19$
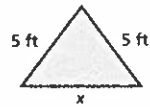
Write and solve an addition equation to find x.
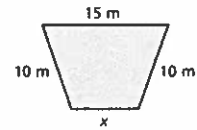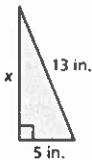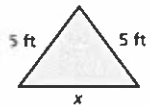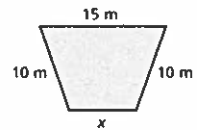11.
Perimeter = 30 in.

13 in.
x
5 in.

12.
Perimeter = 16 ft

5 ft   5 ft
x

13.
Perimeter = 43 m

15 m
10 m   10 m
x

Determine whether the ordered pair is a solution of the equation.
14. $2x - 7 = 13$; $x = 10$
15. $\frac{27}{m} + 4 = 17$; $m = 3$
16. $35 = 9r + 7$; $r = 2$

Solve the equation
17. $12 + w + 8 = 10 - 4$
18. $19 - 7 + f = 18 - 5$