1) Explain the Addition Property of Equality in your own words.

2) Explain the Subtraction Property of Equality in your own words.

Solve each equation:

3) $x + 2 = 10$

4) $b - 12 = 14$

5) $5 = x - 3$

6) $c + 9 = 29$

7) $47 = v + 15$

8) $13 + y = 65$

9) $w + 3 = -10$

10) $-5 + x = -10$

11) $-23 = x - 11$

12) $r - 316 = -8$

13) $x - 25{,}000 = 36{,}250$

14) $-82 = x - 82$

15) $n - 10 + (-5) = -20$

16) $u + (-5) = 12$

17) $-22 + n + 30 = -29 + 9$

Answer Key

1) You can add the same value to both sides of an equation
2) You can subtract the same value from both sides of an equation
3) 8
4) 26
5) 8
6) 20
7) 32
8) 52
9) -13
10) -5
11) -12
12) 308
13) 61250
14) 0
15) -5
16) 19
17) -28