

Solve Linear Equations  
Using Addition Property of Equality  
Lecture 017 Algebra WS #5 v01

Name \_\_\_\_\_

Date \_\_\_\_\_

$$6) x - 7 = -6$$

**Solve for x. Check your answers.**

$$1) x - 6 = 7$$

$$7) -16 = x + 2$$

$$2) 1 = x - 4$$

$$8) 4 = x + 5$$

$$3) x - 8 = 14$$

$$9) 5 + 13 + x = 17 + 9$$

$$4) x + 4 = 15$$

$$10) 5 - 16 + 2 = 6 + x - 10$$

$$5) 11 = x + 13$$

11)  $18 - 3 = x - 17$

**Determine if the given solution is correct. If it is not, find the solution.**

17) Is -12 the solution to  $-10 - 7 = x - 3$ ?

12)  $19 + 2 + x = 8 + 1$

18) Is 1 the solution to  $-17 - 2 = x - 18$ ?

13)  $4 - 18 + 7 = 3 + x - 1$

19) Is -12 the solution to  $x + 4 = 1 - 9$ ?

14)  $10 - 16 + 4 = 9 + x - 1$

20) Is -16 the solution to  $x + 10 = 1 - 7$ ?

15)  $1 - 16 = x + 7$

21) Is 7 the solution to  $-6 + x = 2$ ?

16)  $13 + 8 = x + 18$

22) Is 24 the solution to  $-8 + x = 17$ ?

## Answer Key

Testname: 017ALGEBRAWS05V01

- 1)  $x = 13$
- 2)  $x = 5$
- 3)  $x = 22$
- 4)  $x = 11$
- 5)  $x = -2$
- 6)  $x = 1$
- 7)  $x = -18$
- 8)  $x = -1$
- 9)  $x = 8$
- 10)  $x = -5$
- 11)  $x = 32$
- 12)  $x = -12$
- 13)  $x = -9$
- 14)  $x = -10$
- 15)  $x = -22$
- 16)  $x = 3$
- 17) no;  $x = -14$
- 18) no;  $x = -1$
- 19) yes
- 20) yes
- 21) no;  $x = 8$
- 22) no;  $x = 25$