PRACTICE L9 Absolute Value Equations Name: _____ HR: _____

Solve and the following absolute value equations.

1. Find the distance between -5 and -38.	2. Find the distance between 12 and 47.	3. Find the distance between -20 and 35.
4. Find the distance between 150 and 375.	5. Find the distance between -245 and -789.	6. Find the distance between 3.5 and -14.2.

7. $\|x\| = 7$	8. $\|x - 3\| = 5$
9. $\|2x + 1\| = 9$	10. $4\|x - 2\| = 20$

11. $\lvert x+6\rvert = 0$	12. $3\lvert x-4\rvert + 2 = 14$
13. $\lvert 5x\rvert = 25$	14. $2\lvert x+1\rvert - 3 = 7$
15. $\lvert x-8\rvert = -2$	16. $-4\lvert x+3\rvert = 12$
17. $\lvert 3x-5\rvert + 4 = 10$	18. $\lvert x\rvert = -6$