Name: _____

Score:

Solve the Absolute Value Equation

Solve each equation.

1) $\|x - 3\| = 5$ Solution =	2) $\|x + 7\| = 2$ Solution =	3) $\left\|\frac{2}{3} - x\right\| = 1$ Solution =
4) $\|x + 2\| = 1$ Solution =	5) $\|-x + 9\| = 3$ Solution =	6) $\|x - 5\| = 4$ Solution =
7) $\|-x - 1\| = 8$ Solution =	8) $\left\|x + \frac{1}{2}\right\| = 2$ Solution =	9) $\|-7 - x\| = 5$ Solution =
10) $\|x + 6\| = 11$ Solution =	11) $-\|x + 5\| = -3$ Solution =	12) $\|x + 2\| = \frac{1}{3}$ Solution =
13) $\left\|x + \frac{1}{5}\right\| = \frac{1}{3}$ Solution =	14) $\|-x + 1\| = 9$ Solution =	15) $\|3 - x\| = 7$ Solution =
16) $\|x + 10\| = 5$ Solution =	17) $\|x - 8\| = 4$ Solution =	18) $\|x + 1\| = 2$ Solution =

Solve the Absolute Value Equation

T2ES1

1) $\|x-3\|=5$ Solution = $\{-2,\ 8\}$	2) $\|x+7\|=2$ Solution = $\{-9,\ -5\}$	3) $\left\|\frac{2}{3}-x\right\|=1$ Solution = $\{-\frac{1}{3},\ \frac{5}{3}\}$
4) $\|x+2\|=1$ Solution = $\{-3,\ -1\}$	5) $\|-x+9\|=3$ Solution = $\{6,\ 12\}$	6) $\|x-5\|=4$ Solution = $\{1,\ 9\}$
7) $\|-x-1\|=8$ Solution = $\{-9,\ 7\}$	8) $\left\|x+\frac{1}{2}\right\|=2$ Solution = $\{-\frac{5}{2},\frac{3}{2}\}$	9) $\|-7-x\|=5$ Solution = $\{-12,\ -2\}$
10) $\|x+6\|=11$ Solution = $\{5,\ -17\}$	11) $-\|x+5\|=-3$ Solution = $\{-8,\ -2\}$	12) $\|x+2\|=\frac{1}{3}$ Solution = $\left\{-\frac{7}{3},\ -\frac{5}{3}\right\}$
13) $\left\|x+\frac{1}{5}\right\|=\frac{1}{3}$ Solution = $\{-\frac{8}{15},\ \frac{2}{15}\}$	14) $\|-x+1\|=9$ Solution = $\{-8,\ 10\}$	15) $\|3-x\|=7$ Solution = $\{-4,\ 10\}$
16) $\|x+10\|=5$ Solution = $\{-5,\ -15\}$	17) $\|x-8\|=4$ Solution = $\{4,\ 12\}$	18) $\|x+1\|=2$ Solution = $\{-3,\ 1\}$