Name: _____   Score:

Solve the Absolute Value Equation   T1ES2

Solve each equation. In case of no solution, write Ø (null set).

1) $\lvert 2x \rvert = 4$ Solution =	2) $\lvert x \rvert = 16$ Solution =	3) $\lvert x \rvert = -3$ Solution =
4) $\lvert -x \rvert = -9$ Solution =	5) $-\dfrac{\lvert x \rvert}{3} = -1$ 	6) $\lvert x \rvert = 7$ =
7) $\lvert x \rvert = 11$ Solution =		$\lvert x \rvert = 19$ =
10) $\lvert -x \rvert = 2$ Solution =		$\rvert = \dfrac{1}{2}$ =
13) $\lvert x \rvert = -7$ Solution =		$\rvert = 12$ =
16) $-\lvert x \rvert = -3$ Solution =		$\rvert = 6$ =
19) $\lvert x \rvert = 15$ Solution =	20) $-\lvert x \rvert = 4$ Solution =	21) $\lvert 3x \rvert = -5$ Solution =
22) $-\lvert x \rvert = -19$ Solution =	23) $\lvert -x \rvert = 6$ Solution =	24) $\lvert x \rvert = 1$ Solution =

Solve the Absolute Value Equation

T1ES2

1) $\|2x\| = 4$ Solution = $\{-2,\ 2\}$	2) $\|x\| = 16$ Solution = $\{-16,\ 16\}$	3) $\|x\| = -3$ Solution = $\emptyset$
4) $\|-x\| = -9$ Solution = $\emptyset$	5) $-\dfrac{\|x\|}{3} = -1$	6) $\|x\| = 7$ = $\{-7,\ 7\}$
7) $\|x\| = 11$ Solution = $\{-11,$		$\|=19$ = $\emptyset$
10) $\|-x\| = 2$ Solution = $\{-2,\ 2$		$\| = \frac{1}{2}$ = $\{-\frac{1}{2},\ \frac{1}{2}\}$
13) $\|x\| = -7$ Solution = $\emptyset$		$\| = 12$ = $\{-12,\ 12\}$
16) $-\|x\| = -3$ Solution = $\{-3,\ 3$		$\| = 6$ = $\{-6,\ 6\}$
19) $\|x\| = 15$ Solution = $\{-15,\ 15\}$	20) Solution = $\emptyset$	21) $\|\ \| = -5$ Solution = $\emptyset$
22) $-\|x\| = -19$ Solution = $\{-19,\ 19\}$	23) $\|-x\| = 6$ Solution = $\{-6,\ 6\}$	24) $\|x\| = 1$ Solution = $\{-1,\ 1\}$