

Name: _____

Score: _____

Solve the Absolute Value Equation

T1ES1

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

| | | |
|--|-----------------------------------|--|
| 1) $ -x = 3$ Solution = | 2) $- -x = 5$ Solution = | 3) $ x = 9$ Solution = |
| 4) $ x = -6$ Solution = | 5) $ x = 4$ Solution = | 6) $\frac{ x }{4} = 6$ Solution = |
| 7) $ -x = -5$ Solution = | 8) $ x = -10$ Solution = | 9) $ x = 15$ Solution = |
| 10) $ x = 8$ Solution = | 11) $- x = -9$ Solution = | 12) $ -x = 2$ Solution = |
| 13) $ -x = -11$ Solution = | 14) $ x = 6$ Solution = | 15) $ x = 13$ Solution = |
| 16) $ x = 7$ Solution = | 17) $ -x = 5$ Solution = | 18) $ x = -4$ Solution = |
| 19) $\frac{ x }{2} = -1$ Solution = | 20) $ 3x = 9$ Solution = | 21) $ -x = -10$ Solution = |
| 22) $ x = 15$ Solution = | 23) $- x = 1$ Solution = | 24) $ x = 12$ Solution = |

Name: _____

Answer key

Score: _____

Solve the Absolute Value Equation

T1ES1

| | | |
|---|---|--|
| 1) $ -x = 3$ Solution = $\{-3, 3\}$ | 2) $- -x = 5$ Solution = \emptyset | 3) $ x = 9$ Solution = $\{-9, 9\}$ |
| 4) $ x = -6$ Solution = \emptyset | 5) $ x = 4$ Solution = $\{-4, 4\}$ | 6) $\frac{ x }{4} = 6$ Solution = $\{-24, 24\}$ |
| 7) $ -x = -5$ Solution = \emptyset | 8) $ x = -10$ Solution = \emptyset | 9) $ x = 15$ Solution = $\{-15, 15\}$ |
| 10) $ x = 8$ Solution = $\{-8, 8\}$ | 11) $- x = -9$ Solution = $\{-9, 9\}$ | 12) $ -x = 2$ Solution = $\{-2, 2\}$ |
| 13) $ -x = -11$ Solution = \emptyset | 14) $ x = 6$ Solution = $\{-6, 6\}$ | 15) $ x = 13$ Solution = $\{-13, 13\}$ |
| 16) $ x = 7$ Solution = $\{-7, 7\}$ | 17) $ -x = 5$ Solution = $\{-5, 5\}$ | 18) $ x = -4$ Solution = \emptyset |
| 19) $\frac{ x }{2} = 1$ Solution = $\{-2, 2\}$ | 20) $ 3x = 9$ Solution = $\{-3, 3\}$ | 21) $ -x = -10$ Solution = \emptyset |
| 22) $ x = 15$ Solution = $\{-15, 15\}$ | 23) $- x = 1$ Solution = \emptyset | 24) $ x = 12$ Solution = $\{-12, 12\}$ |