Regents Exam Questions A.REI.A.2: Solving Radicals 3 www.jmap.org

A.REI.A.2: Solving Radicals 3

- 1 The solution set of the equation $\sqrt{x+1} + 5 = 0$ is
 - 1) ø
 - 2) {24}
 - 3) {-26}
 - 4) {0}
- 2 If x is a real number, what is the solution set of the equation $\sqrt{1-2x} = 2$?
 - 1) $\left\{\frac{3}{2}\right\}$ 2) $\left\{-\frac{3}{2}\right\}$ 3) $\{-2\}$
 - 4) { }
- 3 What is the solution set of $\sqrt{2-x} = x$
 - 1) {1}
 - 2) {-2}
 - 3) $\{-2,1\}$
 - 4) {-1,2)
- 4 The solution set of the equation $\sqrt{2x+15} = x$ is
 - 1) {5,-3}
 - 2) {5}
 - 3) {-3}
 - 4) { }

- 5 What is the solution set of the equation $\sqrt{x+1} = x - 1$? 1) { }
 - 2) {0,3}
 - $\begin{array}{l} 3) & \{3\} \\ 4) & \{0\} \end{array}$
- 6 For the equation $\sqrt{x+21} = x+1$, the solution set is
 - 1) { }
 - 2) {-5}
 - 3) {-5,4}
 - 4) {4}

7 The solution set of the equation $\sqrt{y-2} = 2 - y$ is

- 1) {2,3}
- 2) $\{2\}$
- 3) $\{3\}$
- 4) *ø*

8 What is the solution set for $\sqrt{x+11} + 1 = x$

- 1) {5,-2}
- 2) {5}
- 3) {-2}
- 4) { }

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9 What is the solution set of the equation

$$\sqrt{5-x+3} = x?$$

- 1) {1}
- 2) {4,1}
- 3) { }
- 4) {4}
- 10 The equation $\sqrt{x+6} + x = 6$ has for its roots 1) neither 3 nor 10
 - 2) 10, only
 - 3) 3, only
 - 4) both 3 and 10
- 11 What is the solution set of the equation
 - $\sqrt{9x^2 11} = 5?$
 - 1) $\{0\}$
 - 2) $\{2\}$
 - 3) $\{-2\}$
 - 4) $\{2,-2\}$
- 12 What is the solution set of the equation
 - $\sqrt{x^2 3x + 3} = 1?$
 - 1) {1}
 - 2) {2}
 - 3) $\{1,2\}$
 - 4) { }
- 13 The equation $x = \sqrt{3x+4}$ has
 - 1) 4 and -1 as solutions
 - 2) 4 as its only solution
 - 3) -1 as its only solution
 - 4) no solutions

- 14 Which statement is true about the roots of the equation $\sqrt{x^2 - 5x + 5} = 1$?
 - The only root is 1. 1)
 - The only root is 4. 2)
 - 3) Both 1 and 4 are roots.
 - 4) Neither 1 nor 4 is a root.
- 15 Which equation has both 3 and 6 as roots?
 - 1) $\sqrt{x-2} = x-4$
 - 2) $\sqrt{x-2} = 4-x$

 - $3) \quad \sqrt{x-2} = \frac{3}{x}$ $4) \quad \sqrt{x-2} = \frac{x}{3}$

Name:

1	ANS:	1	REF:	068729siii
2	ANS:	2	REF:	060119siii
3	ANS:	1	REF:	010329siii
4	ANS:	2	REF:	019933siii
5	ANS:	3	REF:	018726siii
6	ANS:	4	REF:	089931siii
7	ANS:	2	REF:	088726siii
8	ANS:	2	REF:	019425siii
9	ANS:	4	REF:	069625siii
10	ANS:	3	REF:	080126siii
11	ANS:	4	REF:	089026siii
12	ANS:	3	REF:	010020siii
13	ANS:	2	REF:	018426siii
14	ANS:	3	REF:	019722siii
15	ANS:	4	REF:	089826siii