A2.A.22: Solving Radicals 1: Solve radical equations

1 If $\sqrt{x-4} = 7$, what is the value of x?
1) 11
2) 18
3) 45
4) 53

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 If $\sqrt{2x-1} + 2 = 5$ then x is equal to
1) 1
2) 2
3) 5
4) 4

4 What is the solution of the equation $\sqrt{2x-3} - 3 = 6$?
1) 42
2) 39
3) 3
4) 6

5 What is the value of x in the equation $\sqrt{3+x} - 5 = -2$?
1) 46
2) 12
3) 3
4) 6

6 What is the solution set of the equation $\sqrt{x^2 - 3x + 3} = 1$?
1) {1}
2) {2}
3) {1,2}
4) { }

7 What is the solution set of the equation $\sqrt{9x^2 - 11} = 5$?
1) {0}
2) {2}
3) {–2}
4) {2,–2}

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Answer Section

1	ANS: 4	REF: 011001b
2	ANS: 2	REF: 060119siii
3	ANS: 3	REF: 010607b
4	ANS: 1	REF: 080602b
5	ANS: 4	REF: 010802b
6	ANS: 3	REF: 010020siii
7	ANS: 4	REF: 089026siii