

Solve the radical equation, and check all proposed solutions.

1) $\sqrt{x+3} = 7$

A) {100}

B) {49}

C) {52}

D) {46}

1) _____

2) $\sqrt{24x-24} = x+5$

A) {6}

B) {-6}

C) {-7}

D) {7}

2) _____

3) $\sqrt{2x+3} - \sqrt{x+1} = 1$

A) {-3, -1}

B) \emptyset

C) {-1, 3}

D) {3}

3) _____

Solve and check the equation.

4) $x^{3/2} = 125$

A) $\{625\sqrt{5}\}$

B) {5}

C) $\{3\sqrt{5}\}$

D) {25}

4) _____

5) $(5x+1)^{1/2} = 2$

A) 5

B) $\left\{-\frac{1}{5}\right\}$

C) $\left\{\frac{4}{5}\right\}$

D) $\left\{\frac{3}{5}\right\}$

5) _____

6) $(5x-3)^{1/3} + 3 = 5$

A) $\left\{\frac{9}{5}\right\}$

B) $\left\{\frac{7}{5}\right\}$

C) $\left\{\frac{11}{5}\right\}$

D) \emptyset

6) _____

7) $(x^2+8x+16)^{3/4} - 8 = 19$

A) {-13, 0, 5}

B) {-13, 5}

C) {5}

D) {27}

7) _____

Answer Key

Testname: PRACTICE01

- 1) D
- 2) D
- 3) C
- 4) D
- 5) D
- 6) C
- 7) B