

Exercises - Solving Radical Equations

1

$$11 - \sqrt{2x+3} = 8$$

What is the solution set of the equation above?

- A) 0
- B) 3
- C) 6
- D) 9

2

$$\sqrt{-3x+4} = 7$$

What is the solution set of the equation above?

- A) -15
- B) -12
- C) -8
- D) -6

3

$$\sqrt{x+18} = x-2$$

What is the solution set of the equation above?

- A) $\{-2\}$
- B) $\{7\}$
- C) $\{-2, 7\}$
- D) $\{2, -7\}$

4

$$\sqrt{5x-12} = 3\sqrt{2}$$

What is the solution set of the equation above?

- A) 2
- B) 4
- C) 6
- D) 8

5

If $a = \sqrt{3}$ and $\sqrt{2-3x} = \frac{1}{3}a$, what is the value of x ?

6

If $k = 8 - \sqrt{2}$ and $\sqrt[3]{x-k} = -2$, what is the value of x^2 ?