

Name: _____

Solve the following equations.

1. $3\sqrt{x} + 2 = 0$

ANSWER _____

2. $4\sqrt[3]{x} - 8 = 0$

ANSWER _____

3. $\sqrt{x} - x^2 = 0$

ANSWER _____

4. $\sqrt{x} - \sqrt[3]{x} = 0$

ANSWER _____

5.
$$\frac{9x^{7/2}}{2} - 16x = 0$$

6.
$$2 - \frac{30}{x} = 0$$

ANSWER _____

ANSWER _____

10.
$$x + 1 - \frac{1}{x - 1} = 0$$

7.
$$3x - \frac{2}{x} = 0$$

8.
$$2x^2 - \frac{5}{x^2} = 0$$

9.
$$1 - \frac{x}{x^2 - 6} = 0$$

Answers

1. x = 4/92. x = 83. x = 0, 1, factor out \sqrt{x} . 4. x = 0, 1, factor out \sqrt{x} . 5. $x = 0, (32/9)^{2/5}$, factor out x. 6. x = 157. $x = \sqrt{2/3}, -\sqrt{2/3}$ 8. $x = \sqrt[4]{5/2}, -\sqrt[4]{5/2}$ 9. x = 3, -210. $x = \sqrt{2}, -\sqrt{2}$