



## Take Test: Solving Quadratic Equations Quiz

### Description

### Instructions

Multiple Attempts	Not allowed. This Test can only be taken once.
Force Completion	This Test can be saved and resumed later.

Save All Answers

Save and Submit

### Question 1

3 points

Save Answer

What are the correct steps for solving the equation  $9x^2 = 108$ ?

- ☐  $x^2 = 99$   
 $x = \pm 3\sqrt{11}$
- ☐  $x^2 = 12$   
 $x = \pm 2\sqrt{3}$
- ☐  $9x = \pm 6\sqrt{3}$   
 $x = \pm \frac{2}{3}\sqrt{3}$
- ☐  $3x = 6\sqrt{3}$   
 $x = 2\sqrt{3}$

### Question 2

3 points

Save Answer

Which equation has solution,  $x = \pm 4\sqrt{2}$ ?

- ☐  $x^2 = 8$
- ☐  $x^2 = \pm 8$
- ☐  $x^2 = \sqrt{32}$
- ☐  $x^2 = 32$

**Question 3**

4 points

Save Answer

In which equation is  $x = -5$  a solution? Select all that apply.

- ☐  $(x - 3)(x + 5) = 0$
- ☐  $(x - 2)^2 = 0$
- ☐  $(x + 3)(x + 5) = 0$
- ☐  $(-5x + 3)^2 = 0$

**Question 4**

3 points

Save Answer

What are the solutions to the equation  $x(x + 1) = 0$ ?

- ☐  $x = 0$  only
- ☐  $x = 1$  only
- ☐  $x = 0$  or  $x = 1$
- ☐  $x = 0$  or  $x = -1$

**Question 5**

3 points

Save Answer

Which equation shows how the solution to  $36x^2 - 1 = 0$  can be found by factoring?

- ☐  $(6x - 1)^2 = 0$
- ☐  $(36x + 1)(36x - 1) = 0$
- ☐  $(6x + 1)(6x - 1) = 0$
- ☐  $(6x + 1)(x - 1) = 0$

**Question 6**

3 points

Save Answer

Use factoring by difference of squares to solve the equation  $x^2 - 49 = 0$ .

- ☐  $x = 7$  or  $x = 9$   
☐  $x = \pm 7$   
☐  $x = \pm 1$

Question Completion Status:

### Question 7

3 points

Save Answer

Solve the equation  $x^2 + 3x - 54 = 0$ .

- ☐  $x = 6$  or  $x = -9$   
☐  $x = -\frac{1}{3}$  or  $x = -2$   
☐  $x = -\frac{1}{3}$  or  $x = 50$   
☐  $x = -1$  or  $x = -9$

### Question 8

3 points

Save Answer

Which of the following shows the first correct step to use factoring to solve  $2x^2 - 5x - 12 = 0$ ?

- ☐  $2x^2 - 5x - 12 = 0$   
 $2x^2 - 5x = 12$   
☐  $2x^2 - 5x - 12 = 0$   
 $\sqrt{2x^2 - 5x - 12} = \sqrt{0}$   
☐  $2x^2 - 5x - 12 = 0$   
 $(2x + 3)(x - 4) = 0$   
☐  $2x^2 - 5x - 12 = 0$   
 $2x^2 = 5x + 12$

### Save and Submit

Click Save and Submit to save and submit. Click Save All Answers to save all answers.

Save All Answers

Save and Submit