

Algebra II  
Solving Quadratic Equations

Name \_\_\_\_\_

Date \_\_\_\_\_

Solve.

1.  $z(z + 3) = 0$

2.  $(a + 10)(a - 10) = 0$

3.  $(y + 1)(2y - 3) = 0$

4.  $(1 - 6q)(2 + 5q) = 0$

Solve by factoring.

5.  $0 = a^2 - 14a$

6.  $0 = 8y^2 + 20y$

7.  $r = 2r^2$

8.  $a^2 - 5a - 50 = 0$

9.  $m^2 - m - 12 = 0$

10.  $a^2 + 14a + 24 = 0$

11.  $0 = w^2 - 6w + 10$

12.  $6a^2 + 48a - 54 = 0$

13.  $0 = 3y^2 + 24y + 45$

14.  $8p^2 - 8p - 48 = 0$

15.  $36 + 16y - y^2 = 0$

16.  $3c^2 - 72c + 240 = 0$

17.  $0 = p^2 - 36$

18.  $24y^2 - 24 = 0$

19.  $144 = r^2$

20.  $0 = y^2 + 100$

21.  $7w^2 - 8w + 1 = 0$

22.  $3x^2 - x - 2 = 0$

23.  $8x^2 - 14x + 5 = 0$

24.  $0 = 20c^2 + 11c - 3$

25.  $9c^2 + 16c - 4 = 0$