

Math 3 Advanced

Determine the number of real solutions of a given quadratic equation.

1.  $2x^2 + 10x + 9 = 2$

2.  $-3x^2 - 5x - 10 = -2$

3.  $7x^2 + 5x + 11 = -3$

4.  $-10x^2 - 2x - 11 = -5$

5.  $-7x^2 + 7x + 8 = 8$

6.  $8x^2 - 9x + 13 = 3$

7.  $2x^2 - 8x - 3 = -4$

8.  $-7x^2 + 9x = 5$

9.  $4x^2 - 8x + 10 = 6$

10.  $3x^2 + 7x - 8 = -9$

11.  $6x^2 - 5x = 8$

12.  $-4x^2 + x + 2 = 5$

13.  $-3x^2 + 6x - 7 = -4$

14.  $x^2 + 6x + 13 = 10$

15.  $5x^2 + 10x - 4 = -9$

16.  $-3x^2 - 6x = 3$