

# Math 1513 - College Algebra

## Discussion Board Week 3 - Due 2011.06.25

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Solve each of the following quadratic equations. State if your solution is rational, irrational or complex. Do **not** approximate using decimals!

1.  $13a^2 + 2a - 6 = 0$

2.  $12b^2 + b - 11 = 0$

3.  $4c^2 + 14c + 3 = 0$

4.  $5d^2 - 6d + 17 = 0$

5.  $-6e^2 + 12e - 9 = 0$

6.  $-8f^2 + 4f + 12 = 0$

7.  $7g^2 + 12g - 4 = 0$

8.  $h^2 + 13h - 27 = 0$

9.  $3i^2 - 4i + 16 = 0$

10.  $14j^2 + 3j - 7 = 0$

11.  $-5k^2 + 4k + 13 = 0$

12.  $10l^2 - 9l - 8 = 0$

13.  $11m^2 + 12m - 3 = 0$

14.  $-6n^2 - 7n + 21 = 0$

15.  $-6p^2 - 7p - 23 = 0$

16.  $-12q^2 - 13q - 5 = 0$

17.  $-7r^2 + 14r + 5 = 0$

18.  $17s^2 + s - 17 = 0$

19.  $-t^2 + 17t + 1 = 0$

20.  $19u^2 + 9u - 3 = 0$

21.  $8v^2 - 7v + 3 = 0$

22.  $19w^2 + 5w + 7 = 0$

23.  $-8x^2 + 16x + 32 = 0$

24.  $16y^2 - 32y - 64 = 0$

25.  $12z^2 + 144z - 5 = 0$