

All Work MUST be shown to receive homework credit. No Work = No Credit

Find the discriminant and describe the roots.

1. $a^2 + a + 1 = 0$

2. $m^2 + 6m + 9 = 0$

3. $4c^2 + 2c - 1 = 0$

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

Solve using the quadratic formula.

5. $7m^2 = -12 + 3m^2$

6. $2c^2 - 52c - 54 = 0$

7. $a^2 + 10a + 21 = 0$

8. $c^2 + 11 = 0$

9. $d^2 + d + 5 = 0$

10. $p^2 + 32 = 128$

11. $n^2 - 2n = 44$

12. $m^2 - 2m + 5 = 0$

13. $3p^2 + 5p + 3 = 0$

14. $d^2 - 24 = 0$