Math C

9.3 Practice Problems - part 1

State the discriminant, and the number and type of solutions to a quadratic equation.

1. $a^2 - 4a - 1 = 0$

2. $6t^2 + 9t = -10$

3. $0 = 2w^2 - 3w + 1$

4. $n^2 + 8 = -5n$

5. $0 = x^2 + 6x + 1$

6. $10y + 30 = -y^2$

7. $3b^2 - 14b + 15 = 0$

8. $3y^2 - 27 = 0$

9. $5x^2 = 13x - 12$

10. $z^2 - 2z - 11 = 0$

11. $x^2 - 4x + 3 = 0$

12. $0 = c^2 + 4c - 3$