

Name : _____ Score : _____
Teacher : _____ Date : _____

Working with the Discriminant

Find the value of the discriminant for each equation.

1) $4p^2 = 13p + 17$

2) $g^2 = 4g - 9$

3) $b^2 = 7b - 10$

4) $z^2 = -26z - 12$

Find the discriminant and state the number of real or imaginary solutions.

5) $n^2 = -10n + 11$

6) $5c^2 = -20c - 20$

7) $w^2 = 6w - 11$

8) $2k^2 = 23k - 13$

Find the discriminant and state the number of irrational, rational, and imaginary solutions

9) $3s^2 = -18s - 27$

10) $r^2 = 2r - 9$

11) $-2q^2 = 18q + 15$

12) $-2h^2 = 4h - 6$

