

Find the value of the discriminant. State the number of real or imaginary solutions. If the solutions are real identify them as rational or irrational.

$$3p^2 - 5p + 9 = 0$$

$$t^2 - 3t - 28 = 0$$

$$9x^2 - 24x + 16 = 0$$

$$3x^2 + 9x - 2 = 0$$