Name:_____   Date:_____

Class/Home worksheet: Alg2H
Discriminant and properties of solutions
(page 354 and beyond)

1. Determine the nature of the solutions: $$x^2 + 10x + 25 = 0$$	2. Determine the nature of the solutions: $$x^2 + 7 = 0$$
3. Determine the nature of the solutions: $$x^2 - 4 = 0$$	4. Determine the nature of the solutions: $$y^2 = \frac{1}{2}y + \frac{3}{5}$$

5. Find a quadratic equation for which: Sum of solutions = -5 Product of solution = $\frac{1}{2}$ Check your answer	6. Find a quadratic equation for which: Sum of solutions = $-\pi$ Product of solution = $\frac{1}{4}$ Check your answer