Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_

Class/Home worksheet: Alg2H

Discriminant and properties of solutions

(page 354 and beyond)

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| --- | --- |
| 1. Determine the nature of the solutions:

$$x^{2}+10x+25=0$$ | 1. Determine the nature of the solutions:

$$x^{2}+7=0$$ |
| 1. Determine the nature of the solutions:

$$x^{2}-4=0$$ | 1. Determine the nature of the solutions:

$$y^{2}=\frac{1}{2}y+\frac{3}{5}$$ |

|  |  |
| --- | --- |
| 1. Find a quadratic equation for which:

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

Sum of solutions = $-π$Product of solution = $\frac{1}{4}$Check your answer |