**1. Given**$ y=x^{2}-x+8$**, answer every question on this page.**

 **HONORS MATH 2 Everything on Quadratics V1**

**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |
| --- | --- |
| **Axis of Symmetry** | **Vertex** |
| **Zeroes by factoring** | **Zeroes by Calculator** |
| **Zeroes by Completing the Square** | **Minimum or Max and @ what value?** |
|  **Domain Range** | **Interval****Increasing? Decreasing?** |

** Graph**

**Zeros / Roots / Solutions / x-intercepts by Quadratic Formula**

**Discriminant\_\_\_\_\_\_\_ Type of Roots\_\_\_\_\_\_\_\_\_\_\_\_**

©Rasey2017

**2. Given**$ y=-x^{2}+x+6$**, answer every question on this page.**

|  |  |
| --- | --- |
| **Axis of Symmetry** | **Vertex** |
| **Zeroes by factoring** | **Zeroes by Calculator** |
| **Zeroes by Completing the Square** | **Minimum or Max and @ what value?** |
|  **Domain Range** | **Interval****Increasing? Decreasing?** |

** Graph**

**Zeros / Roots / Solutions / x-intercepts by Quadratic Formula**

**Discriminant\_\_\_\_\_\_\_ Type of Roots\_\_\_\_\_\_\_\_\_\_\_\_**

©Rasey2017

**3. Given**$ y=2x^{2}-12x+10$**, answer every question on this page.**

|  |  |
| --- | --- |
| **Axis of Symmetry** | **Vertex** |
| **Zeroes by factoring** | **Zeroes by Calculator** |
| **Zeroes by Completing the Square** | **Minimum or Max and @ what value?** |
|  **Domain Range** | **Interval****Increasing? Decreasing?** |

** Graph**

**Zeros / Roots / Solutions / x-intercepts by Quadratic Formula**

**Discriminant\_\_\_\_\_\_\_ Type of Roots\_\_\_\_\_\_\_\_\_\_\_\_**

©Rasey2017

**4. Given**$ y=-3x^{2}+3x+6$**, answer every question on this page.**

|  |  |
| --- | --- |
| **Axis of Symmetry** | **Vertex** |
| **Zeroes by factoring** | **Zeroes by Calculator** |
| **Zeroes by Completing the Square** | **Minimum or Max and @ what value?** |
|  **Domain Range** | **Interval****Increasing? Decreasing?** |

** Graph**

**Zeros / Roots / Solutions / x-intercepts by Quadratic Formula**

**Discriminant\_\_\_\_\_\_\_ Type of Roots\_\_\_\_\_\_\_\_\_\_\_\_**

©Rasey2017

**5. Given**$ y=8-2x^{2}$**, answer every question on this page.**

|  |  |
| --- | --- |
| **Axis of Symmetry** | **Vertex** |
| **Zeroes by factoring** | **Zeroes by Calculator** |
| **Zeroes by Completing the Square** | **Minimum or Max and @ what value?** |
|  **Domain Range** | **Interval****Increasing? Decreasing?** |

** Graph**

**Zeros / Roots / Solutions / x-intercepts by Quadratic Formula**

**Discriminant\_\_\_\_\_\_\_ Type of Roots\_\_\_\_\_\_\_\_\_\_\_\_**

©Rasey2017

**6. Given**$ y=x^{2}+5x+6$**, answer every question on this page.**

|  |  |
| --- | --- |
| **Axis of Symmetry** | **Vertex** |
| **Zeroes by factoring** | **Zeroes by Calculator** |
| **Zeroes by Completing the Square** | **Minimum or Max and @ what value?** |
|  **Domain Range** | **Interval****Increasing? Decreasing?** |

** Graph**

**Zeros / Roots / Solutions / x-intercepts by Quadratic Formula**

**Discriminant\_\_\_\_\_\_\_ Type of Roots\_\_\_\_\_\_\_\_\_\_\_\_**

©Rasey2017

**7. Given**$ y=x^{2}-8x$**, answer every question on this page.**

|  |  |
| --- | --- |
| **Axis of Symmetry** | **Vertex** |
| **Zeroes by factoring** | **Zeroes by Calculator** |
| **Zeroes by Completing the Square** | **Minimum or Max and @ what value?** |
|  **Domain Range** | **Interval****Increasing? Decreasing?** |

** Graph**

**Zeros / Roots / Solutions / x-intercepts by Quadratic Formula**

**Discriminant\_\_\_\_\_\_\_ Type of Roots\_\_\_\_\_\_\_\_\_\_\_\_**

©Rasey2017

**8. Given** $y=-x^{2}+4x+5$**, answer every question on this page.**

|  |  |
| --- | --- |
| **Axis of Symmetry** | **Vertex** |
| **Zeroes by factoring** | **Zeroes by Calculator** |
| **Zeroes by Completing the Square** | **Minimum or Max and @ what value?** |
|  **Domain Range** | **Interval****Increasing? Decreasing?** |

** Graph**

**Zeros / Roots / Solutions / x-intercepts by Quadratic Formula**

**Discriminant\_\_\_\_\_\_\_ Type of Roots\_\_\_\_\_\_\_\_\_\_\_\_**

©Rasey2017