Name(s)

|  |  |
| --- | --- |
| Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Vertex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Axis of Symmetry:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Zeros:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Minimum or Maximum | Graph |
| Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Vertex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Axis of Symmetry:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Zeros:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Minimum or Maximum | Graph |
| Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Vertex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Axis of Symmetry:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Zeros:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Minimum or Maximum | Graph |
| Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Vertex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Axis of Symmetry:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Zeros:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Minimum or Maximum | Graph |
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| Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Vertex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Axis of Symmetry:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Zeros:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Minimum or Maximum | Graph |

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| Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Vertex: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Axis of Symmetry:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Zeros:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Minimum or Maximum | Graph |
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Equations

|  |  |  |
| --- | --- | --- |
| Y = -2(x + 2)2 + 3 | Y = 1/3(x - 4)2 - 5 | Y = 1/5(x -2)2 + 4 |
| Y = -3(x + 5)2 + 2 | Y = - (x + 5)2 - 2 | Y = 5/4(x + 1)2 - 3 |
| Y = 2/5(x + 4)2 – 5 | Y = (x -3)2 | Y = 7/4(x -1)2 - 3 |

Vertices

|  |  |  |
| --- | --- | --- |
| (-2, 3) | (4, -5) | (2, 4) |
| (-1, -3) | (-5, 2) | (3, 0) |
| (-5, -2) | (1, -3) | (-4, -5) |

Axes of Symmetry

|  |  |  |
| --- | --- | --- |
| (x = 2) | (x = 4) | (x = -4) |
| (x = -5) | (x = -2) | (x = 3) |
| (x =1) | (x =-1) | (x = -5) |

GRAPHS

|  |  |
| --- | --- |
|  |  |
|  |  |
|  |  |
|  |  |
|  | This section is intentionally left blank. |

EXIT TICKET

|  |  |
| --- | --- |
| Graph the equation in your calculator. Identify the vertex and axis of symmetry. Identify a, h and k and describe how they affect the parabola. Is the parabola a minimum or maximum?  a:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  h: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  k: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Vertex:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Axis of Symmetry: \_\_\_\_\_\_\_\_\_\_\_\_\_\_  Minimum or Maximum | Sketch the graph here. Label the vertex and axis of symmetry.  y = -0.5(x + 1)2 - 2  14 by 14 axes |

EXIT TICKET

|  |  |
| --- | --- |
| Graph the equation in your calculator. Identify the vertex and axis of symmetry. Identify a, h and k and describe how they affect the parabola. Is the parabola a minimum or maximum?  a:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  h: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  k: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Vertex:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Axis of Symmetry: \_\_\_\_\_\_\_\_\_\_\_\_\_\_  Minimum or Maximum | Sketch the graph here. Label the vertex and axis of symmetry.  y = -0.5(x + 1)2 - 2  14 by 14 axes |