|  |  |
| --- | --- |
| **Class Notes****Topic:** Graphing Vertex Form**Chapter and Section #**2.2 Structures of Expressions | **Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****Class \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_****Period/Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |
| **Questions/Main Ideas/Vocabulary** | **Notes/Answers/Definitions/Examples/Sentences** |
| Standard Form of a Quadratic |  |
|  |  |
|  |  |
| Identify a, b, and c in the following equations. |    |
|  |
|  |  |
|  |  |
|  |  |
|  |  |
| Multiply and write each product in standard form. Then identify a, b, and c. |    |
|  |
|  |
|  |  |
|  |  |
|  |  |
| Vertex Form of a Quadratic: |  |
|  |  |
|  |  |
| Basic pattern to the growth of a quadratic. |  |
|  |
|  |  |
|  |  |
|  |  |
| Graph  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

|  |  |
| --- | --- |
| **Questions/Main Ideas/Vocabulary** | **Notes/Answers/Definitions/Examples/Sentences** |
| Graph  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| Graph  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| Use the table to identify the **vertex**, the equation for the **axis of symmetry**, and state the number of **x-intercept(s)** the parabola will have, if any. Will the vertex be a **minimum** or a **maximum**? | **x** | **y** |  | **x** | **x** |
| -4 | -4 |  | -8 | 28 |
| -3 | -1 |  | -7 | 13 |
| -2 | 0 |  | -6 | 3 |
| -1 | -1 |  | -5 | -3 |
| 0 | -4 |  | -4 | -5 |
|  | 1 | -9 |  | -3 | -3 |
|  | 2 | -16 |  | -2 | 3 |
|  |  |
|  | vertex: vertex: |
|  | A.o.S: A.o.S: |
|  | # of x-int: # of x-int: |
|  | max or min: max or min: |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
| Homework sec 2 pg 12-14 |  |
| **Summary:** |  |
|  |
|  |
|  |
|  |
|  |