Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Quadratics Graphing Review

**Use a table of values to graph each function. State the domain and the range.**

 **1.** *y* = $x^{2}$ – 4 **2.** *y* = –$x^{2}$ + 3 **3.** *y* = $x^{2}$ – 2*x* – 6



**Find the vertex, the axis of symmetry, and the *y*–intercept of the graph of each function.**

 **4.** *y* = 2$x^{2}$ – 8*x* + 6 **5.** *y* = $x^{2}$ + 4*x* + 6 **6.** *y* = –3$x^{2}$ – 12*x* + 3

**Use a table of values to graph each function. State the domain and the range in interval notation and the maximum or minimum point.**

**In 9-15, check the transformations that have occurred in each function.**



**In the following problems, write an equation that shows the appropriate transformations from the description.**

|  |
| --- |
| **Write the new equations below:** |
|  |
|  |
|  |
|  |



**Write the equation for the parabola in vertex form.**

20. $y=x^{2}+6x-8$ 21. $y=-3x^{2}-6x+7$

**Write in standard form.**

1. $y=(x+3)^{2}-2$ 23. $y=(4x+1)(2x-3)$

**Convert to vertex form algebraically and then check graphically.**

1. $y=(x-2)(x+6)$ 25. $y=3x^{2}+4x-3$

 