**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_Per:\_\_\_\_\_\_\_\_**

**10.2- Setting up Tables to Graph *y* = *ax*² + *bx* + *c***

**Find the vertex of the graph of the function. Make a table of values using *x*-values to the left and right of the vertex.**

**1.** *y* = *x*² – 10*x* + 3 **2.** *y* = –*x*² + 6*x* – 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***x*** |  |  |  |  |  |
| ***y*** |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***x*** |  |  |  |  |  |
| ***y*** |  |  |  |  |  |

**3.** $y=\frac{1}{2}x^{2}-x+7$ **4.** $y=\frac{1}{3}x^{2}-2x+3$

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***x*** |  |  |  |  |  |
| ***y*** |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***x*** |  |  |  |  |  |
| ***y*** |  |  |  |  |  |

**5.** *y* = *x*² – 6*x* + 8 **6.** *y* = –*x*² + 12*x* – 5

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***x*** |  |  |  |  |  |
| ***y*** |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***x*** |  |  |  |  |  |
| ***y*** |  |  |  |  |  |

**7.** *y* = 7*x*² + 14*x* + 2 **8.** *y* = –2*x*² – 4*x* + 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***x*** |  |  |  |  |  |
| ***y*** |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***x*** |  |  |  |  |  |
| ***y*** |  |  |  |  |  |

**9.** $y=\frac{1}{4}x^{2}-2x+5$ **10.** $y=-\frac{5}{2}x^{2}+10x-1$

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***x*** |  |  |  |  |  |
| ***y*** |  |  |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***x*** |  |  |  |  |  |
| ***y*** |  |  |  |  |  |