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

**Graph each function. State the domain, the vertex (min/max point), the range, the**

**x-intercepts, and the axis of symmetry.**

|  |  |
| --- | --- |
| 1.) *f(x)= -x2 + 4* | Domain: \_\_\_\_\_\_\_\_  Range: \_\_\_\_\_\_\_\_  Vertex:\_\_\_\_\_\_\_\_  Max or min?\_\_\_\_\_\_\_\_  *x*-intercepts: \_\_\_\_\_\_\_\_\_\_\_\_  Axis of symmetry: \_\_\_\_\_\_\_\_ |
| 2.) *h*(*x) =* -*x*2 – 2*x* + 8 | Domain: \_\_\_\_\_\_\_\_  Range: \_\_\_\_\_\_\_\_  Vertex:\_\_\_\_\_\_\_\_  Max or min?\_\_\_\_\_\_\_\_  *x*-intercepts: \_\_\_\_\_\_\_\_\_\_\_\_  Axis of symmetry: \_\_\_\_\_\_\_\_ |
| 3.) *f(x)= x2 – 1* | Domain: \_\_\_\_\_\_\_\_  Range: \_\_\_\_\_\_\_\_  Vertex:\_\_\_\_\_\_\_\_  Max or min?\_\_\_\_\_\_\_\_  *x*-intercepts: \_\_\_\_\_\_\_\_\_\_\_\_  Axis of symmetry: \_\_\_\_\_\_\_\_ |