**Algebra 2 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**4.1 Preview**

**Graph the following quadratics. Identify the vertex.**

|  |  |
| --- | --- |
| $$1. x^{2}+2x-8=0$$**vertex:** **direction of opening: up or down** | 2. $-x^{2}-x-6=0$**vertex:****direction of opening: up or down** |
| 3. $2x^{2}+6x+5=0$**vertex:****direction of opening: up or down** | 4. $-2x^{2}+2x-6=0$**vertex:****direction of opening: up or down** |