**Jig-Saw Problem - Circles**

Sketch a graph of the following quadratic function and complete the table provided.

$$y=x^{2}+2x-8$$



|  |  |
| --- | --- |
|  | $$y=x^{2}+2x-8$$ |
| **Vertex** |  |
| **Maximum or minimum value** |  |
| **y-intercept** |  |
| ***x*-intercept(s)** |  |
| **Equation of the Axis of Symmetry** |  |
| **Domain** |  |
| **Range** |  |

**Jig-Saw Problem - Triangles**

Sketch a graph of the following quadratic function and complete the table provided.

$$y=(x+1)^{2}-9$$



|  |  |
| --- | --- |
|  | $$y=(x+1)^{2}-9$$ |
| **Vertex** |  |
| **Maximum or minimum value** |  |
| **y-intercept** |  |
| ***x*-intercept(s)** |  |
| **Equation of the Axis of Symmetry** |  |
| **Domain** |  |
| **Range** |  |

**Jig-Saw Problem - Squares**

Sketch a graph of the following quadratic function and complete the table provided.

$$y=\left(x+4\right)(x-2)$$



|  |  |
| --- | --- |
|  | $$y=\left(x+4\right)(x-2)$$ |
| **Vertex** |  |
| **Maximum or minimum value** |  |
| **y-intercept** |  |
| ***x*-intercept(s)** |  |
| **Equation of the Axis of Symmetry** |  |
| **Domain** |  |
| **Range** |  |

**Jig-Saw Problem - Stars**

Sketch a graph of the following quadratic function and complete the table provided.



|  |  |
| --- | --- |
| ***x*** | ***y*** |
| -5 | 477 |
| -4 | 01 |
| -1 | -9 |
| 0 | --8 0 |
| 2 | 0 |
| 3 | 77 |

|  |  |
| --- | --- |
| **Vertex** |  |
| **Maximum or minimum value** |  |
| **y-intercept** |  |
| ***x*-intercept(s)** |  |
| **Equation of the Axis of Symmetry** |  |
| **Domain** |  |
| **Range** |  |