**4A.2 – Notes & Practice - Radical Characteristics Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**GSE Algebra II Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Sketch the graph and fill in the chart for each of the following. Describe the transformation beside the graph.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | Starting Pt: | Inc or Dec: | | Domain: | Range: | | Abs. Max or Abs Min: |  | | End Behavior: | | | |  |  | | --- | --- | | Starting Pt: | Inc or Dec: | | Domain: | Range: | | Abs. Max or Abs Min: |  | | End Behavior: | | |
| |  |  | | --- | --- | | Starting Pt: | Inc or Dec: | | Domain: | Range: | | Abs. Max or Abs Min: |  | | End Behavior: | | | |  |  | | --- | --- | | Starting Pt: | Inc or Dec: | | Domain: | Range: | | Abs. Max or Abs Min: |  | | End Behavior: | | |
| |  |  | | --- | --- | | Starting Pt: | Inc or Dec: | | Domain: | Range: | | Abs. Max or Abs Min: |  | | End Behavior: | | | |  |  | | --- | --- | | Starting Pt: | Inc or Dec: | | Domain: | Range: | | Abs. Max or Abs Min: |  | | End Behavior: | | |
| |  |  | | --- | --- | | Starting Pt: | Inc or Dec: | | Domain: | Range: | | Abs. Max or Abs Min: |  | | End Behavior: | | | |  |  | | --- | --- | | Starting Pt: | Inc or Dec: | | Domain: | Range: | | Abs. Max or Abs Min: |  | | End Behavior: | | |
| Write the equation of the radical with the given transformations. | |
| 1. Compressed vertically by ¼ , reflected over the y-axis, left 4, and down 72. | 1. Stretched horizontally by 7, reflected over the x-axis, right 13, and up 42. |