PAP Algebra II Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Transformations of Square Root and Cube Root Summary**

$$y=a \sqrt{b(x-c)} +d y=a \sqrt[3]{b\left(x-c\right)} +d$$

a >1:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ b>1:\_\_\_\_\_\_\_\_\_\_\_\_\_ -c:\_\_\_\_\_\_\_\_\_\_\_\_\_

0<a<1:\_\_\_\_\_\_\_\_\_\_\_\_\_ 0<b<1:\_\_\_\_\_\_\_\_\_\_\_\_\_\_ +c :\_\_\_\_\_\_\_\_\_\_\_\_\_

a<0:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ b< 0:\_\_\_\_\_\_\_\_\_\_\_\_\_ -d:\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 +d:\_\_\_\_\_\_\_\_\_\_\_\_

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a<0:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ b< 0:\_\_\_\_\_\_\_\_\_\_\_\_\_ -d:\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 +d:\_\_\_\_\_\_\_\_\_\_\_\_