**Assignment: Graphing Cube Root Functions**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_

![Description: [image]]()1. $f\left(x\right)=\sqrt[3]{x+2}$ 2. $f\left(x\right)=\sqrt[3]{x-3}+1$

![Description: [image]]()

Inflection Point:

Domain:

Range:

Zeros:

Inflection Point:

Domain:

Range:

Zeros:

![Description: [image]]()![Description: [image]]()3. $f\left(x\right)=2\sqrt[3]{-x}$ 4. $f\left(x\right)=-\sqrt[3]{x}+2$

Inflection Point:

Domain:

Range:

Zeros:

Inflection Point:

Domain:

Range:

Zeros:

![Description: [image]]()![Description: [image]]()5. $f\left(x\right)=-2\sqrt[3]{x-2}-1$ 6. $f\left(x\right)=-\frac{1}{2}\sqrt[3]{x+2}-2$

Inflection Point:

Domain:

Range:

Zeros:

Vertex:

Axis of Sym:

Domain:

Range:

Zeros:

Max/Min

Inflection Point:

Domain:

Range:

Zeros:

![Description: [image]]()![Description: [image]]()7. $f\left(x\right)=2\sqrt[3]{x+3}-7$ 8. $f\left(x\right)=3\sqrt[3]{-x}-3$

Inflection Point:

Domain:

Range:

Zeros:

Inflection Point:

Domain:

Range:

Zeros:

9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



11. Which of the following functions has its inflection point in Quadrant 1?

A. $f\left(x\right)=\sqrt[3]{x+1}-1$ B. $f\left(x\right)=\sqrt[3]{x+1}+1$

C. $f\left(x\right)=\sqrt[3]{x-1}+1$ D. $f\left(x\right)=\sqrt[3]{x-1}-1$