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## Grophing cube Root Fwnctions

Parent graph: $y=\sqrt[3]{x}$


Shape is a $\qquad$
Center point at ( )
Passes through ( , ) and ( , )
Domain: $\qquad$ Range: $\qquad$ from left to right

## Example 1 Describing transformations



We won't look at horizontal dilations until PreCalc
Describe each graph as compared to the parent graph.

| A] $y=\frac{1}{2} \sqrt[3]{x}+4$ | B] $y=-\sqrt[3]{x+5}$ | C] $y=\sqrt[3]{-x+6}$ <br> *warning! Factor out <br> b-value first! | D] $y=7 \sqrt[3]{-x}-8$ |
| :--- | :--- | :--- | :--- |
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