

## Exercise 73

For the following exercises, describe how the formula is a transformation of a toolkit function. Then sketch a graph of the transformation.

$$m(x) = \frac{1}{2}x^3$$

### Solution

Start with the parent function.

$$x^3$$

Multiplying by  $1/2$  vertically compresses the graph by a factor of  $1/2$ .

$$\frac{1}{2}x^3$$

