

**Answer on Question #42245-Math-Calculus**

Describe how to transform the graph of  $f$  into the graph of  $g$ .

$$f(x) = x^4 \text{ and } g(x) = -x^4.$$

Reflect the graph of  $f$  across the  $x$ -axis.

Shift the graph of  $f$  down 1 unit.

Reflect the graph of  $f$  across the  $x$ -axis and then reflect across the  $y$ -axis.

Reflect the graph of  $f$  across the  $y$ -axis.

**Solution**

We have the graph of  $f(x) y = x^4$ . Thus  $g(x) = -x^4 = -y$ . To transform the graph of  $f(x)$  into the graph of  $g(x)$  we should reflect the graph of  $f(x)$  across the  $x$ -axis.

**Answer: Reflect the graph of  $f$  across the  $x$ -axis.**