Exercise 34

For the following exercises, find functions f(x) and g(x) so the given function can be expressed as h(x) = f(g(x)).

$$h(x) = \left(\frac{8+x^3}{8-x^3}\right)^4$$

Solution

Choose

$$f(x) = x^4$$
 and $g(x) = \frac{8+x^3}{8-x^3}$.