

**Exercise 39**

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

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

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**Solution**

Choose

$$f(x) = \frac{1}{x^3} \quad \text{and} \quad g(x) = x - 2.$$