

**Exercise 40**

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

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

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**Solution**

Choose

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