

NAME: \_\_\_\_\_ Score \_\_\_\_\_/10

Please **print** your name**Use correct function notation.**For this quiz, consider the function  $f$ ,  $g$ , and  $\text{abs}$  whose rules are:

$$f(x) = 3x - 2 \quad g(x) = x^2 \quad \text{abs}(x) = |x|$$

and the function  $h$  whose rule is not known to you.

1. What notation is used to designate the range element associated with 5 by the function  $h$ ? \_\_\_\_\_
2. Compute the range element associated with 7 by the function  $f$ . **Show your work.**
3. Compute the range element associated with 7 by the function  $f+g$ . **Show your work.**
4. Compute the range element associated with 7 by the function  $f \circ g$ . **Show your work.**
5. Compute the range element associated with  $-4$  by the function  $\text{abs} \circ f$ . **Show your work.**