

Task 1: Analyze - Complete with Section 4.1 - Worth 10 points.

Given two functions f and g , the composite function, denoted $f \circ g$ (read as "f composed with g") is defined by $(f \circ g)(x) = f(g(x))$. The domain of $f \circ g$ is the set of all numbers x such that

1. x is in the domain of g and
2. $g(x)$ is in the domain of f .

Consider the functions: $f(x) = \frac{x}{2x+1}$ and $g(x) = \frac{6}{x}$

- a. What is the domain of $f(x)$? $(-\infty, -\frac{1}{2}) \cup (-\frac{1}{2}, \infty)$
- b. What is the domain of $g(x)$? $(-\infty, 0) \cup (0, \infty)$
- c. What is the difference between $(f \cdot g)(x)$ and $(f \circ g)(x)$? What is each expression asking you to calculate?

$(f \cdot g)(x)$ in multiplication of $f(x)$ and $g(x)$.
and $(f \circ g)(x)$ in composition of $f(x)$ and $g(x)$.

- d. Find $(f \cdot g)(x)$. Simplify your answer. Show your work.

$$(f \cdot g)(x) = f(x) \cdot g(x) = \left(\frac{x}{2x+1}\right)\left(\frac{6}{x}\right)$$

- e. What is the domain of $(f \cdot g)(x)$? (Remember you should state your domain from the answer before you simplified it).

$$(-\infty, -\frac{1}{2}) \cup (-\frac{1}{2}, \infty)$$

- f. Evaluate $(f \cdot g)(3)$

$$\cancel{f \cdot g} (f \cdot g)(3) = \frac{6}{6+1} = \frac{6}{7}$$

- g. Find $(f \circ g)(x)$. Simplify the complex fraction. Show your work.

$$(f \circ g)(x) = f(g(x)) = f\left(\frac{6}{x}\right) = \frac{\frac{6}{x}}{2x\left(\frac{6}{x}\right)+1} = \frac{6}{12+x}$$

- h. What is the domain of $(f \circ g)(x)$?
- i. Evaluate $(f \circ g)(3)$

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