



Name: _____

Date: _____

Score: _____

Direction: Perform the indicated composition of function. Show all your work in the space provided.

1) If $f(x) = \frac{x}{x+3}$ and $g(x) = \frac{1}{x}$, find $f \circ g$.

2) If $g(x) = \sqrt{5-x}$ and $f(x) = -x^2 + 6x - 4$, find $(g \circ f)(4)$.

3) If $g(x) = \frac{2x+1}{x-1}$ and $f(x) = \frac{x+1}{x-2}$, find $(g \circ f)(-1)$.



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1) If $f(x) = \frac{x}{x+3}$ and $g(x) = \frac{1}{x}$, find $f \circ g$.

$$f \circ g = \frac{1}{3x+1}$$

2) If $g(x) = \sqrt{5-x}$ and $f(x) = -x^2 + 6x - 4$, find $(g \circ f)(4)$.

$$(g \circ f)(4) = 1$$

3) If $g(x) = \frac{2x+1}{x-1}$ and $f(x) = \frac{x+1}{x-2}$, find $(g \circ f)(-1)$.

$$(g \circ f)(-1) = -1$$