

Name _____

Date _____

Year Group _____

Find the domain of the following composite functions

1. $(f \circ g)(x)$ and $(g \circ f)(x)$: $f(x) = x^2 + 1$ and $g(x) = \sqrt{5 - x}$

Domain of $f(x) =$ _____ , _____

Domain of $g(x) =$ _____ , _____

Answer of $(f \circ g) =$ _____ , _____

Answer of $(g \circ f) =$ _____ , _____

2. $(f \circ g)(x)$ and $(g \circ f)(x)$: $f(x) = \sqrt{x - 3}$ and $g(x) = x^2 + 4$

Domain of $f(x) =$ _____ , _____

Domain of $g(x) =$ _____ , _____

Answer of $(f \circ g) =$ _____ , _____

Answer of $(g \circ f) =$ _____ , _____

3. $(f \circ g)(x)$ and $(g \circ f)(x)$: $f(x) = (x - 6)^2 - 7$ and $g(x) = \sqrt{2 - x}$

Domain of $f(x) =$ _____ , _____

Domain of $g(x) =$ _____ , _____

Answer of $(f \circ g) =$ _____ , _____

Answer of $(g \circ f) =$ _____ , _____