17.3 – Composite Functions

Composition of Functions
$$(f \circ g)(x) = f\big(g(x)\big)$$ $$(g \circ f)(x) = g\big(f(x)\big)$$

Examples:

1. Let $f(x) = x - 2$ and $g(x) = x^2$.

    $(f \circ g)(x) = $ _____

    $(g \circ f)(x) = $ _____

2. Let $f(x) = 2x$ and $g(x) = x^2 + 4$.

    $(f \circ g)(x) = $ _____

    $(g \circ f)(x) = $ _____