Composition of Functions

Example: $g(x) = 3x + 1$

$g(x + 2) =$

$g(x^2) =$

$g(e^x) =$

$g(h(x)) =$

$$g \circ h(x) = g(h(x))$$

Example: $g(x) = x + 1$

$\qquad h(x) = x^2$

$g \circ h(x) =$

$h \circ g(x) =$

Example: $f(x) = e^{x+1}$

$$f(x) = g\big(h(x)\big)$$

$$g(x) = \ ?$$

$$h(x) = \ ??$$