461
$$f(x) = 2^x$$
;

$$g(x) = \sqrt{x} - 2.$$

 $[f \circ g = 2^{\sqrt{x}-2}; g \circ f = \sqrt{2^x} - 2]$

462
$$f(x) = \ln 2x;$$
 $g(x) = e^{-x}.$

$$g(x) = e^{-x}$$

$$\left[f \circ g = -x + \ln 2; g \circ f = \frac{1}{2x}\right]$$

$$l:A \rightarrow B$$

$$A \rightarrow C$$

$$\mathbb{R}^{7}$$

$$\ell(x) = 2^x$$

$$f(x) = 2^{x} \qquad g(x) = \sqrt{x} - 2$$

$$(g \circ f)(x) = g(f(x)) = g(2^{x}) = \sqrt{2^{x}} - 2$$

$$(f \circ g)(x) = f(g(x)) = f(Ux - z) = 2^{Ux - 2}$$

$$f: \mathbb{R}^+ \to \mathbb{R}$$

$$g: \mathbb{R} \to \mathbb{R}^{+}$$

$$g \circ f : \mathbb{R}^t \to \mathbb{R}^t$$

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

$$= -\ln 2x \qquad = \ln (2x)^{-1} =$$

$$= (2\times)^{-1} = \frac{1}{2\times}$$