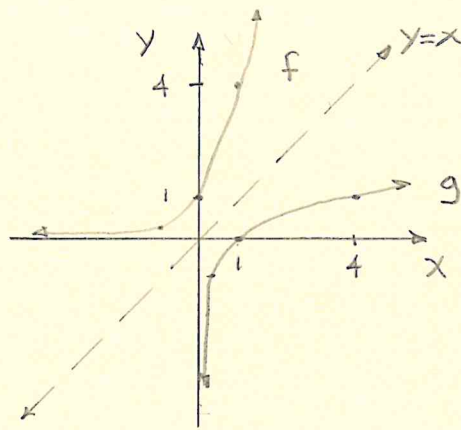


Pg. 199, #44

$$f(x) = 4^x$$

$$g(x) = \log_4 x$$

Pg. 200, #56 $f(x) = \log_{10} x$; $g(x) = \log_{10}(x+7)$ Transformation from $f \rightarrow g$: ① HS 7 ←

Pg. 200, #88

$$\text{Simplify: } \ln\left(\frac{1}{e^4}\right) = \ln e^{-4} = \boxed{-4}$$

Pg. 201, #109 $f(t) = 80 - 17 \log_{10}(t+1)$, $0 \leq t \leq 12$

$$a) f(0) = 80 - 17 \log_{10} 1 = 80 - 17 \cdot 0 = \boxed{80}$$

$$b) f(2) = 80 - 17 \log_{10} 3 = \boxed{71.89}$$

$$c) f(11) = 80 - 17 \log_{10} 12 = \boxed{61.65}$$