

4.8 1)

$$[(g \circ f)(x_1) = (g \circ f)(x_2)] \Rightarrow g(f(x_1)) = g(f(x_2)) \stackrel{g:1-1}{\Rightarrow} f(x_1) = f(x_2) \Rightarrow [x_1 = x_2]$$

Αριθμούμε

$$\begin{aligned} [g(x_1) = g(x_2)] &\Rightarrow \frac{f(x_1)}{1-f(x_1)} = \frac{f(x_2)}{1-f(x_2)} \Rightarrow f(x_1)(1-f(x_2)) = f(x_2)(1-f(x_1)) \Rightarrow \\ &\Rightarrow f(x_1) - \cancel{f(x_1)f(x_2)} = f(x_2) - \cancel{f(x_1)f(x_2)} \Rightarrow f(x_1) = f(x_2) \Rightarrow [x_1 = x_2] \end{aligned}$$

Αριθμούμε