Note 1
$$(4, 9) = \int_{\delta} f(t)g(t)dt$$

CIPS)
$$\frac{1}{(f, g)} = \int_{\delta} \frac{1}{f(f)} \frac{1}{g(f)} df$$

$$= \int_{\delta} \frac{1}{f(f)} \frac{1}{g(f)} df$$

$$= (f, g) = (f, g)$$

$$\frac{1}{f(f)} = (f, g)$$