1 The rate of change of the cumulative function should equal the density function.

$$f(t) = \frac{d}{dt} F(t)$$

$$\frac{1}{\alpha} e^{-t/\alpha} = \cancel{\text{MA}} \frac{d}{dt} (1 - e^{-t/\alpha})$$

✓

Theres more to it then that though.