



$$= \int_{t-2}^t 3e^{-\tau} d\tau = -3e^{-\tau} \Big|_{t-2}^t = 3e^{-(t-2)} - 3e^{-t} = 3e^{-t}(e^2 - 1) = 19.17e^{-t} \quad \text{for } t > 2$$

at $t = 2$ $y(2) = 19.17e^{-2} = 2.59 \checkmark$

$t > 2$ $y(t) = 0.95t$

