CISE 302: Linear Control Systems

Properties of Laplace Transform

Problem S5.3

Determine f(0) when $F(s) = \frac{3}{(s+2)(s+5)}$.

Solution:

F(s) is strictly proper.
$$f(0) = \lim_{s \to \infty} sF(s) = \lim_{s \to \infty} \frac{3s}{(s+2)(s+5)} = 0$$