University of Waterloo
MATH 213, Spring 2015
Assignment 7

Question 1 (7 marks)

Find the inverse of the given transform in two different ways: using partial fractions and using the convolution theorem.

$$F(s) = \frac{7}{(s-3)s^3}$$

Question 2 (3 marks)

Solve for $x(t)$ on $0 \leq t < \infty$,

$$x'' - 7x' = \delta(t - 11)$$