

Math217 Practice exam solution

February 4, 2008

1 D 2.D 3.F 4.C 5.A 6.III only 7.E 8.A 9.A 10.F 11.D 12.A 13.C

14 a) $x(t) = 50 - 50e^{-t/25}$

b) Approximately 5.58 minutes.

c) Assuming the tank is never full $x(t) = \frac{(t-T)^2 + 100(t-T) + 500}{(t-T) + 50}$.