

et/RC d Vout (t) + 1 et/RC Vout (t)=1 et/RC Vin (t) product rule [(et/Rc)(Vout(t))] = 1 et/Rc Vin(t) et/RC. Vout (t) = Vo + \frac{t}{RC} et/RC Vin(2) d2 Vout(t) = Voe-t/RC + (1 e(2-t)/RC Vinl Vout(t) = Voe-t/RC+ (1)/RC Vin(2) d2, t 20

Q7) Obtain pulse response part 2: Compute lim yalt). You can use l'Hopital's rule to evaluate lim e A/RC -1. Then, plug in zero in delta: