Progle Mede 2007 CONEL 434 Review.

RC retrooplies.

Uni a Mar To Vout

Vii a Mar To Vout

Vii a Tappec vin c z R Vont Vo jatifice

1 + jatifice HPF Parallel Resonance $Y(s) = \frac{1}{R} + sc + \frac{1}{sl}$ 2(s) + 3l 2(s) + 3l 3/c $=\frac{8/C}{5^2+\frac{3}{9}c+\frac{1}{10}c}$ 30 he for roots of 52+ 3 + tc = 0 5,2 = -1 Jic - (12) Pole 300 plant

The state of th

We can also do this completely in the onega

 $Y(w) = \frac{1}{R} + j2\pi fe + \frac{1}{j2\pi f \nu}$ $\frac{2(\omega)}{R} + \frac{1}{2\pi fc} + \frac{1}{32\pi fc}$

= T + j (2T/C - 1)

when 2Tfc = 1

 $2(\omega) = \frac{1}{2}$