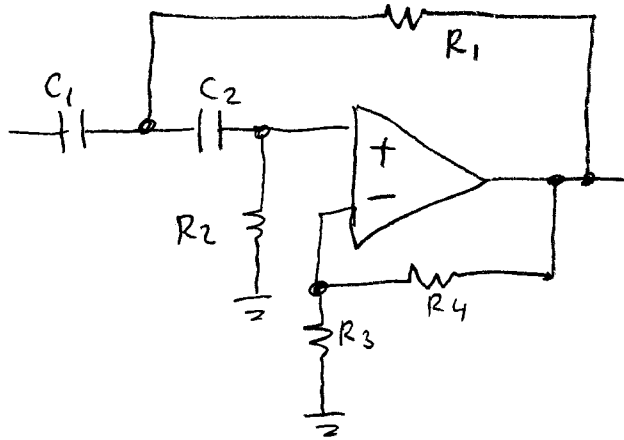


Design a second order high pass filter

with  $\omega = 100 \frac{\text{rad}}{\text{sec}}$  (15.92 Hz),

damping ( $d$ ) = 1.414 (Butterworth),

Use this topology, with  $C_1 = C_2 = 0.1 \mu\text{f}$  and  $R_1 = R_2 = R_3$



Hint:

Normalized parameters:

$$C_1 = C_2 = 1 \quad R_1 = R_2 = R_3 = 1$$

$$R_4 = 2 - d$$

Adjust  $C_1, C_2$  for the frequency.

Then pick  $R_1, R_2$  to keep  
the same time constant with  
 $C = 0.1 \mu\text{f}$

$C_1, C_2$
$R_1, R_2, R_3$
$R_4$