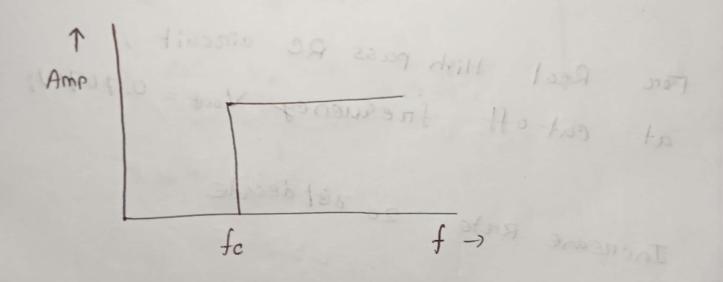
Jakania (Experiment 5 26)

Cut off frequency
$$f = \frac{1}{2\pi Rc}$$
Low pass, phase difference

 $\theta = -\tan^{-1}(2\pi fRc)$

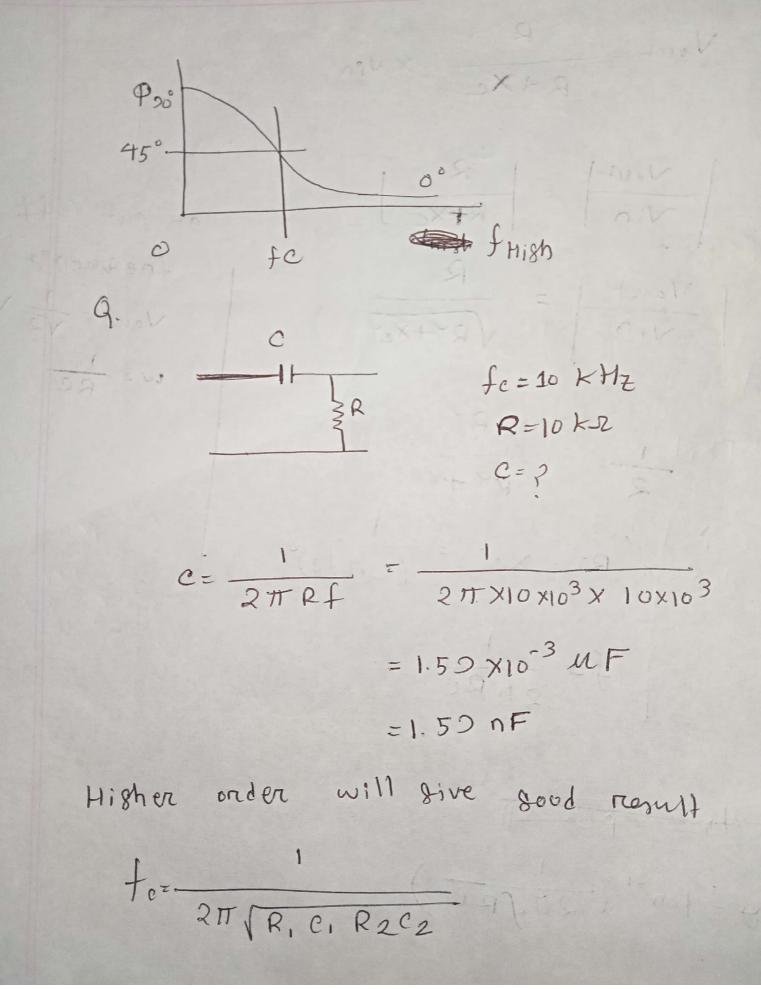
High pass, phase difference

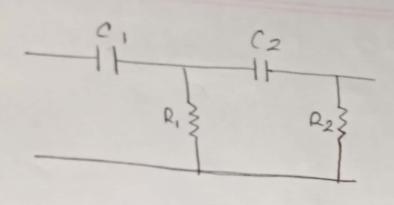
1 Explain how high pass filter works.



pass all frequency up fo

W= 7 Vin Xc= wc Vout = R + X vin X c= wc W=0 =) Vaut = 0 w= d => Vout = Vin Real High pass RC circuit, 1 Forc cut off frequency Vout = 0.707 V; at Increase Rate, 20 dB/ decade boss of fued medical about





2. What happens if DC voltage is passed through

when capacitors are connected across DC supply voltage they become charged to the voltage of applied voltage, acting like temporarry storage device and hold this charge as long as the supply voltage and hold this charge as long as the supply voltage is present.