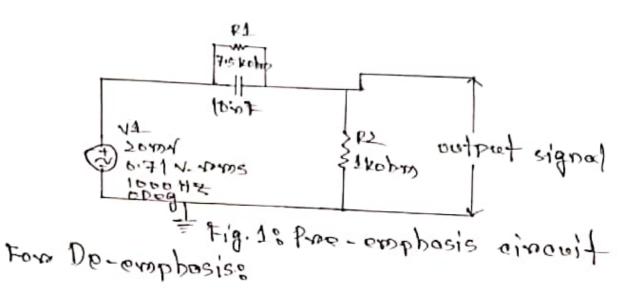
impendence, of the collector voltage increase ase. If the signal frequency is losser then the impendence decrease which increase the voltage the collectors and bence decrease the voltage the pro-emphasis cinquit then has voltage transfer matio for trequency of as given by the equation.

nonethosise The cinquit is placed out the monething side. It act as allow pass filters. The boosting gain for highers from our ency signal in the transmitting side is done by the proe-emphasis cinquit is filtered to the same value of low pass filters.



cincuit Diagrames



1000HZ tighon output signal

Fig. 2: De-emphasis rincuit.



source code in mottabs of = in put to Enton wolfenence Inequency:); for of = 1:50 x(4) = (4/cart (4/4/4/6)); 12(P) =40 Bnd B Supploy (2,1,1); Plot(12,20) 5, title (Proe prophasis signal .); y(f) = (1) sanx (1+(f/f2)); for of =1:50 fo(f) = f; prod Subplot(2,12); p104(3,8); titlele De emphasis signal'); inputo Enton refference fragasacy: 10

No of the expaniments of Name of the exponiments to write down a program using mattab for the generation of pre-emphasis and de-emphasis wave. 8 30 tines

i) To observe the effects of pre-emphasis on given input signal.

ii) To observe the effects of de-emphasis on given input signal.

Theony:
The noise has a offect on the higher modulating frequencies than on the lower once. Thus, if the higher frequencies were antificially boosted at the transmittens and commos pondingly out at the mecetivers an improvement in noise immunity could be expected. There he is many interesting the he expected, thereo by increpasing the sur the sur the signers modulating trequencies at the transmitt is known as pro-emphasis and the compensation at the modelyers is ealled de-comphasis.

proceemphasis: The cinevits are the transmitting side of the frequency modulators. It is used to increase to gain on the highers frequency component as the input signal treguency increased, the impedance