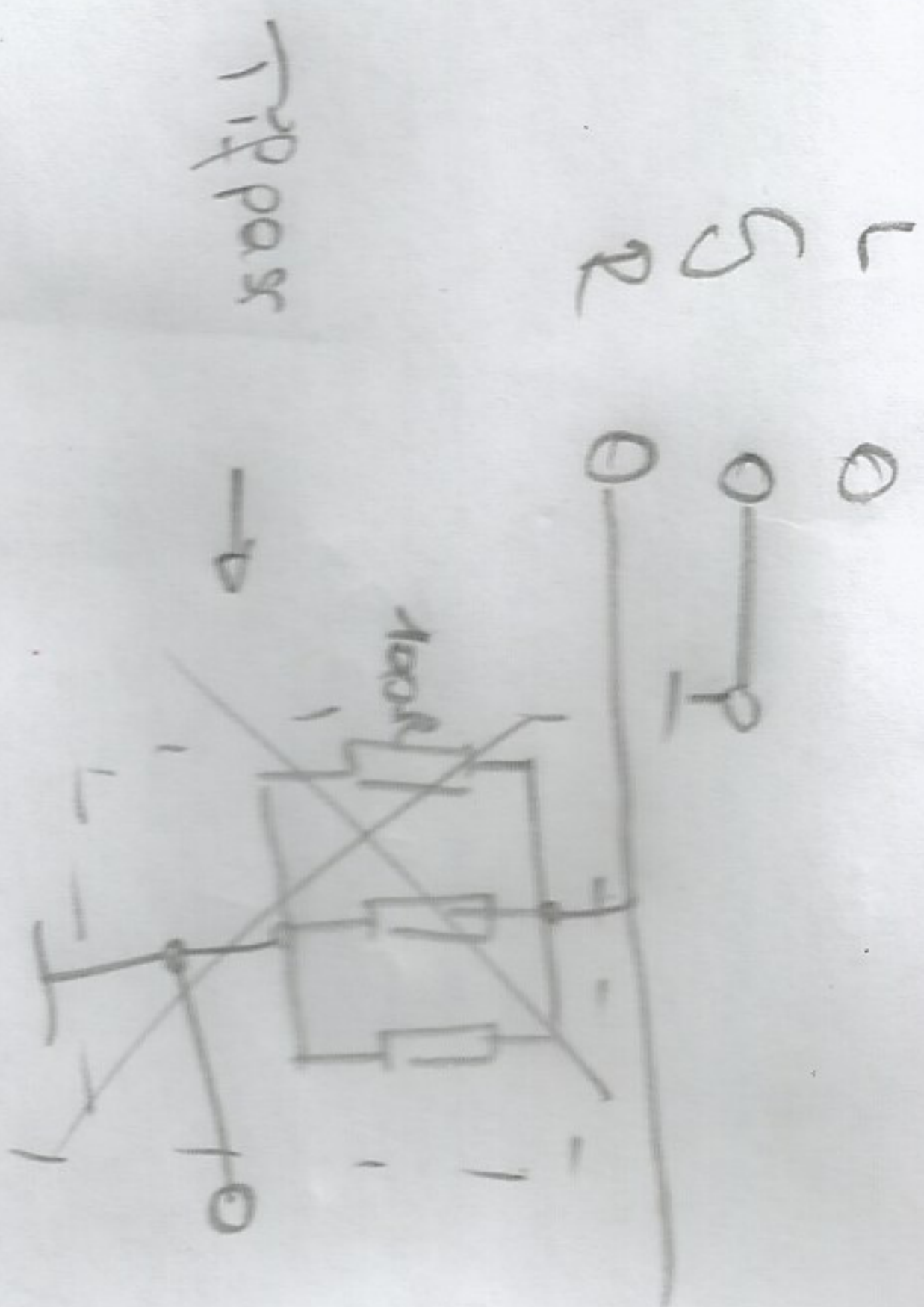


20112 - 201412



→ Transistor sensor

cycles = $e^{2\pi f t}$ // carrier frequency
rotating vector

for Fourier

cycles = $-e^{-2\pi i f t} = g(t)$

→ $\Delta \sum_{n=0}^N g(n\Delta t) e^{-2\pi i f t}$ N number of samples

$\frac{1}{N} \sum_{n=0}^N g(n\Delta t) e^{-2\pi i f t} \Delta t$ → can be of mass

time interval

$\frac{1}{N} \sum_{n=0}^N \Delta t$

$\Delta t = \frac{1}{f} \int g(t) e^{-2\pi i f t} dt$

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