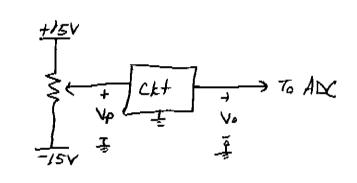
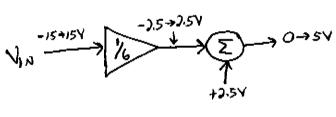
#/

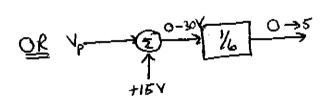
Leg position sensor for Biorabot

Voneeds to be O-SV

We need to scale as well as shift.

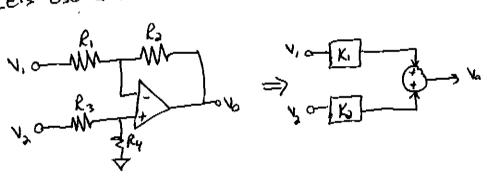


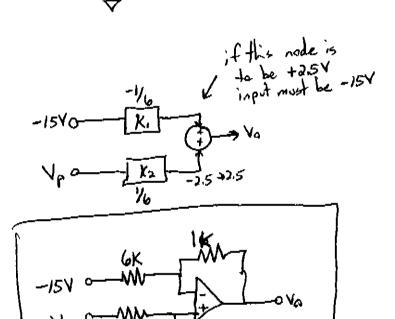




Either design (as well as oflers) will work.

Let's use a Subtractor circuit.



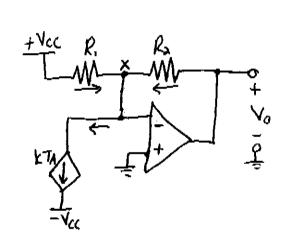


Temperature Sensor

$$k = l_{MA} \frac{kCL @ \times}{R_{1}} + \frac{V_{0} - Q}{R_{2}} = kT_{A}$$

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$$\frac{dV_0}{dT} = 100 \frac{dV}{dC} \qquad V_0 = R_0 \left[k T_A - \frac{V_{cc}}{R_i} \right]$$



We also want to to be proportional to oc (not K) so we need to have an offset.

We want to = 0 if TA = 273

$$0 = R_2 k T_A - \frac{R_2}{R_1} V_{cc} = (look) \left(\frac{l_{\mu A}}{K} \right) (273 K) - \frac{look}{R_1} (10)$$

#3

V=VA & General Exponential Waveform.

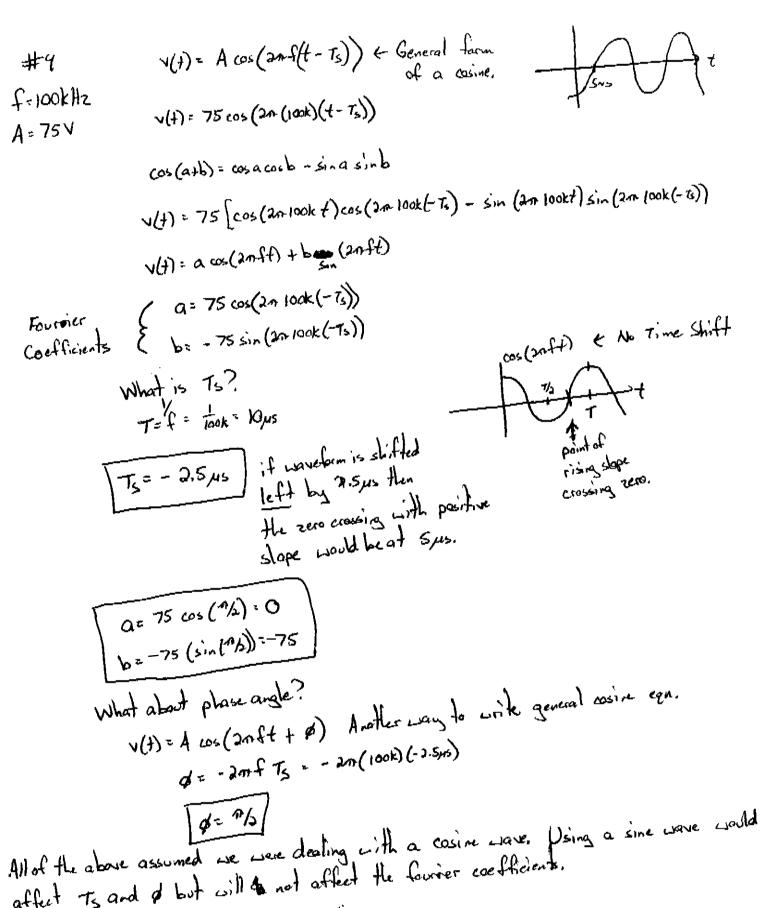
$$5 = V_{A} e^{-7m/c}$$

$$0 = \frac{5}{35} = e^{2\pi k}$$

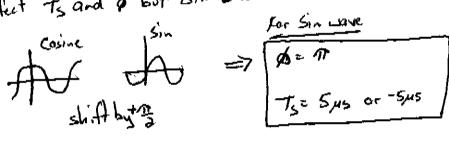
Pluginto eqn Dar D to find VA. 5= VA e - 5 m/s.m. VA = 12.24/

Plug values into general eyo, and solve.

b) V: 12.2 e



affect To and of but will be not affect the Courier coefficients.



Vece + 15V

Voltage Follower

