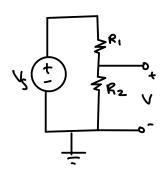
## Week 6 (ribsheet

NOTES: 12,13, 14

VOLTAGE DIVIDER

when useful: converting a larger voltage into a smaller one



$$V = \frac{R_2}{R_1 + R_2} V_S$$

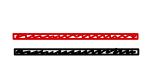
$$\alpha | So, V_{R_1} = \frac{R_1}{R_1 + R_2} V_S$$

$$Vertuge is \deltaivided into two weighted v's.$$

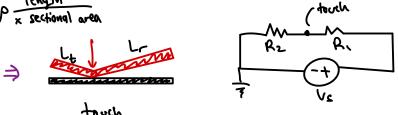
\* same behavior w/ two inverting amps

## ID RESISTIVE TOUCHSCREEN

Resistivity & (greek letter "rho") is a physical property of a resultor R = D = P = length area



touch

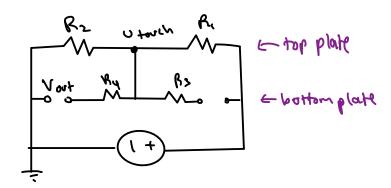


no touch

at touch point: Utouch = RZ ( voltage divider formula)

# takeaway; knowing U = DLz/A + J4/A Vs = Lt Vs = Le Vs

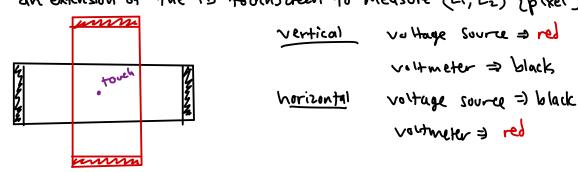
now, for posttom plate ( to measure utouch safely):



we can measure across because I thinky is 0.

## 20 RESISTIVE TOUCHSCREEN

an extension of the 1D touchscreen to measure (L., Lz) [pixel]



Red : us = <del>L</del> Vs

Res plate:

Black: U3 = Lh Vs

