PH 7.0

Voltage = 1.52

~~PH = 5.32~~

PH 4.0

Voltage = 2.04

~~PH = 7.11~~

Light sensor - I^2C @ 0x10

set gain to 1/8,

integration time to 25 ms

for long run, see slide 257!

also twist wires!

$2.04(\text{slope}) + \text{offset} = 4.0$

$1.52(\text{slope}) + \text{offset} = 7.0$

$\text{offset} = 4.0 - 2.04(\text{slope})$

$1.52(\text{slope}) + 4.0 - 2.04(\text{slope}) = 7.0$

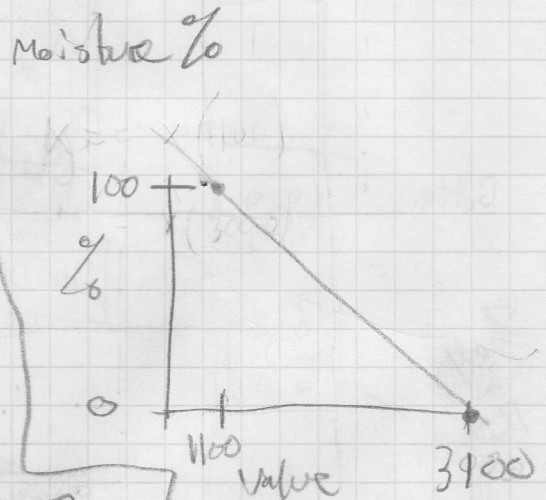
$4.0 - 0.52(\text{slope}) = 7$

$-0.52(\text{slope}) = 3$

$\text{slope} = -5.7692$

$\text{offset} = 4.0 - 2.04(-5.7692)$

$\text{offset} = 15.7892$



$\% = -\frac{100}{2800}x + b$

$100 = -\frac{100}{2800}(1100) + b$

$b = 157.895$

$\% = \left(-\frac{100}{2800}\right)x + 157.895$