$$x = \frac{^{206}Pb}{^{204}Pb} \qquad y = \frac{^{207}Pb}{^{204}Pb} \qquad y = mx + mC_1 + C_2$$

for a given t, m is constant

$$M = \frac{^{235}U}{^{238}U} \left(\frac{e^{\lambda_{235}t} - 1}{e^{\lambda_{238}t} - 1} \right)$$

today →
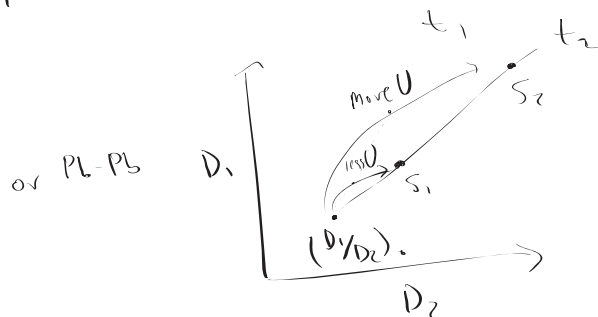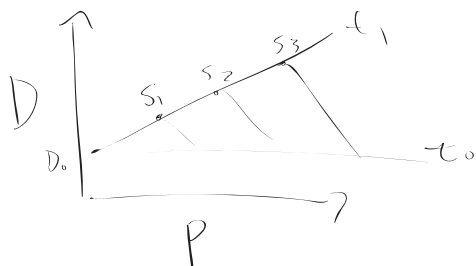
$$y = mx + b$$
$$b = mC_1 + C_2$$

$$C_1 = \left(\frac{-^{206}Pb}{^{204}Pb} \right)_0 \qquad C_2 = \left(\frac{^{207}Pb}{^{204}Pb} \right)_0$$

solve for m and b from data/line to get c1,c2

We can solve for m by measuring reservoirs of same age, same Initial Daughter compositions, different parent composition

or Pb-Pb

meteorites → same t, same U is earth, same Pb isotopes