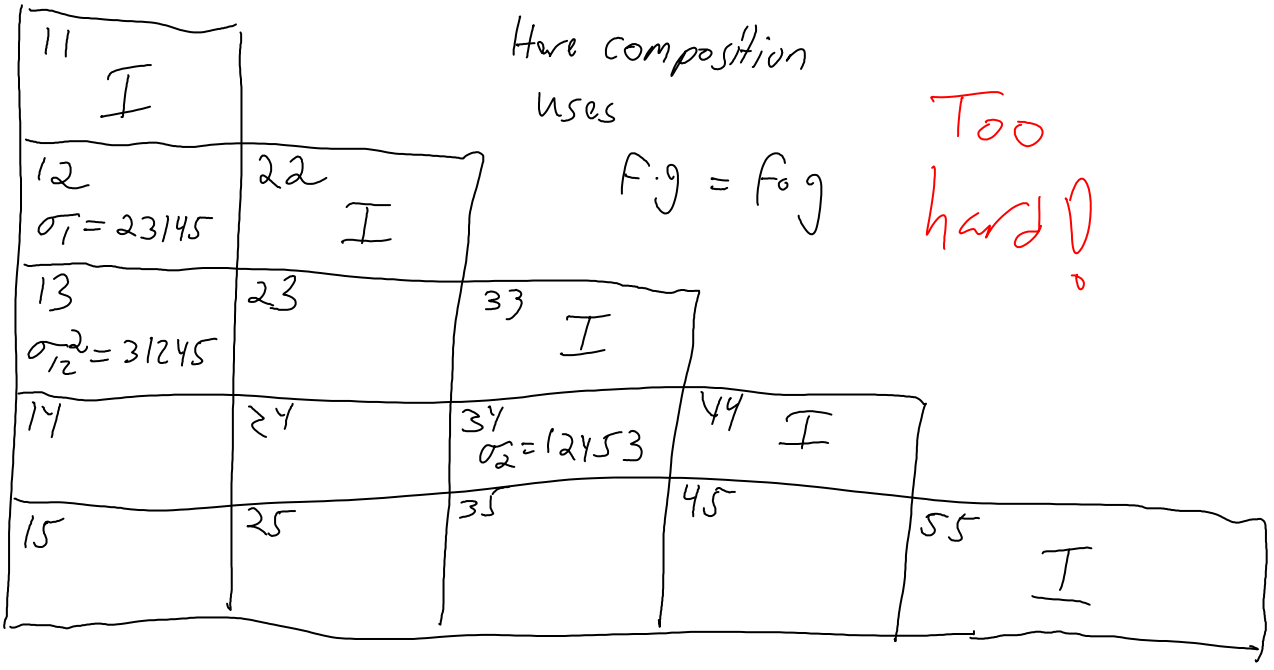
Scratch Page for September 14

September-14-10
9:10 AM

<u>Example</u> $\sigma_1 = (123)$, $\sigma_2 = (345)$, in S_5

$\sigma_1 = (123) = 23145$, $\sigma_2 = (345) = 12453$

11 I				
12 $\sigma_1 = 23145$	22 I			
13 $\sigma_{12}^2 = 31245$	23	33 I		
14	24	34 $\sigma_2 = 12453$	44 I	
15	25	35	45	55 I



Here composition uses

$f \cdot g = f \circ g$

Too hard!

$\sigma_{12}^2 = 31245$

$\sigma_{12}\sigma_{34} = 23451$ $\quad \sigma_{12}^{-1}\sigma_{12}\sigma_{34} = \sigma_{34} \ldots$

$\sigma_{12}^2\sigma_{34} = 31452$