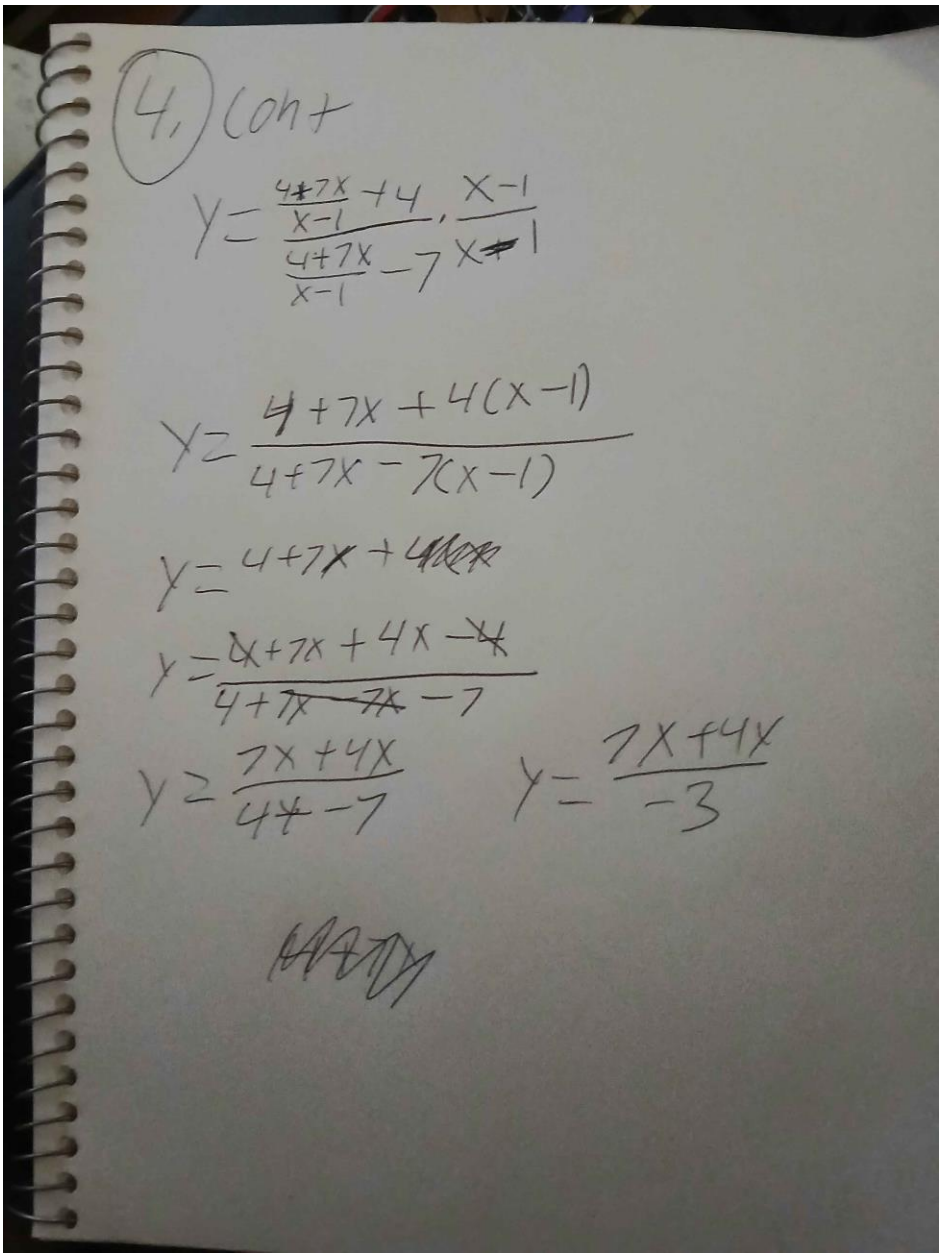
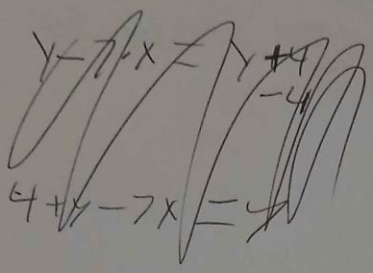

4, cont
$y = \frac{\frac{4+7x}{x-1} + 4}{\frac{4+7x}{x-1} - 7}, \frac{x-1}{x \neq 1}$
$y = \frac{4 + 7x + 4(x-1)}{4 + 7x - 7(x-1)}$
$y = 4 + 7x + 4x - 4$
$y = \frac{4 + 7x + 4x - 4}{4 + 7x - 7x - 7}$
$y = \frac{7x + 4x}{4 - 7}$
$y = \frac{7x + 4x}{-3}$

④ $y=\frac{x+4}{x-7}$ · $y-7$

$x\neq(-\infty,7)\cup(7,\infty)$



$y-7x=x+4$
-4
$4+y-7x=4$

$xy-7x=y+4$
-4

$x(y-7)=y+4$

$xy-7x=y+4$
-4

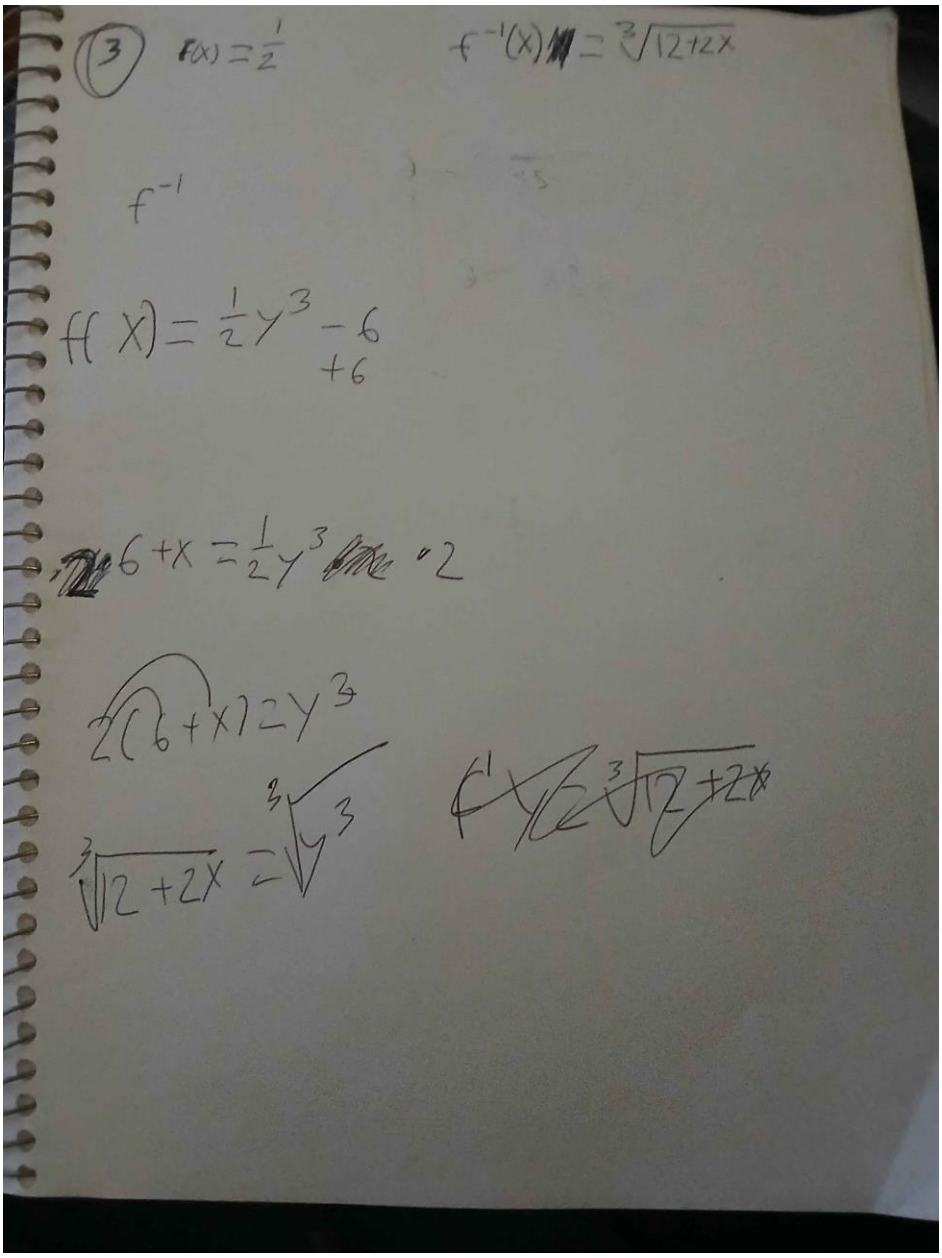
$xy-7x-y=4$
$+7x$

~~$xy-7x-4=y$~~

$xy-y=4+7x$

$\frac{y(x-1)}{x-1}$

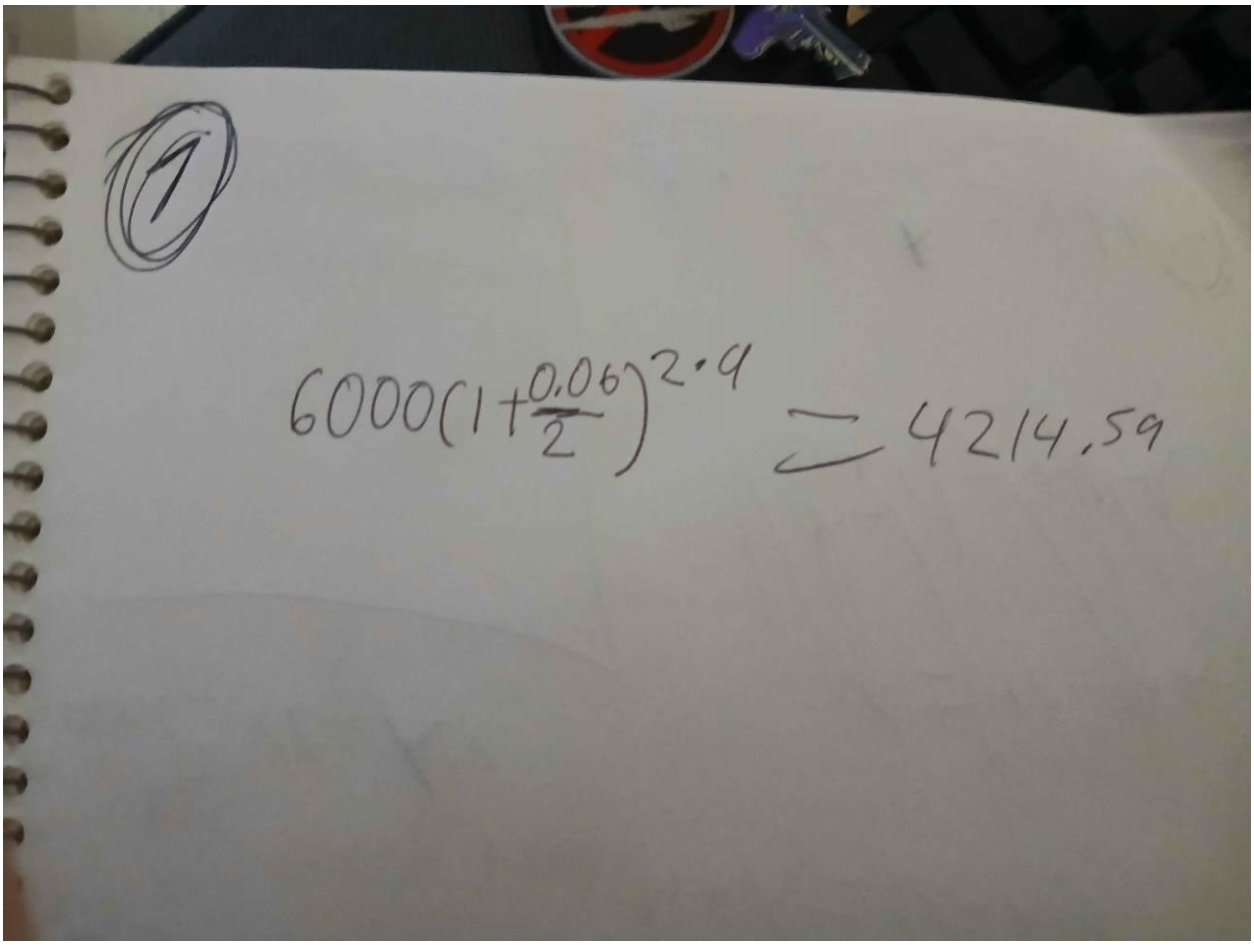
$f^{-1}(x)\ y=\frac{4+7x}{x-1}$


(3) f(x) = 1/2
f^-1(x) = ∛(12+12x
f^-1
f(x) = 1/2 y^3 - 6
+6
6 + x = 1/2 y^3 · 2
2(6+x) = y^3
∛(2+2x) = ∛y^3

3. cont

$f \circ f^{-1}$ $\frac{1}{2}\sqrt[3]{12+2x}^{3} - 6$

$\frac{1}{2}\,12+2x - 6$


7
$6000(1+\frac{0.06}{2})^{2\cdot 9} = 4214.59$