Math 3 Honors Pre-Calc: Functions Chapter
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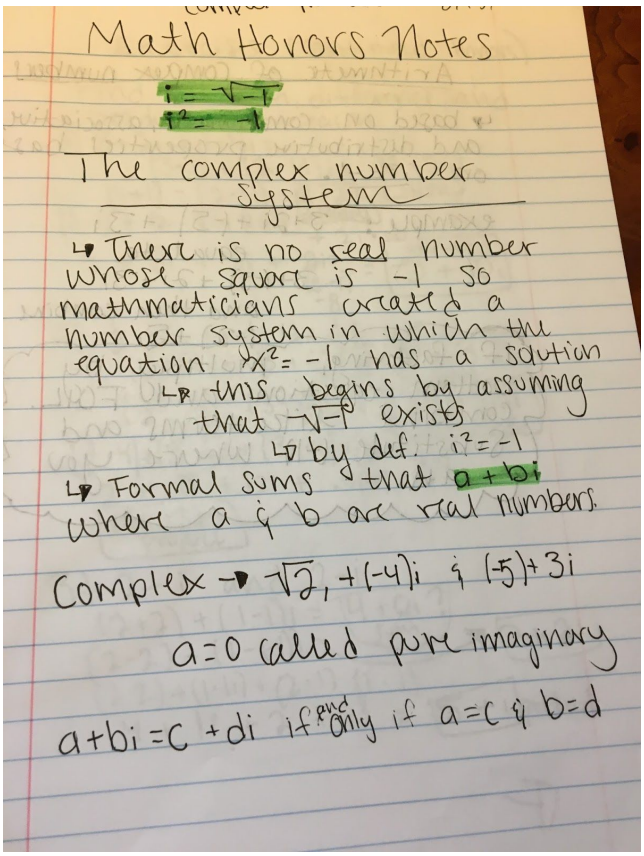
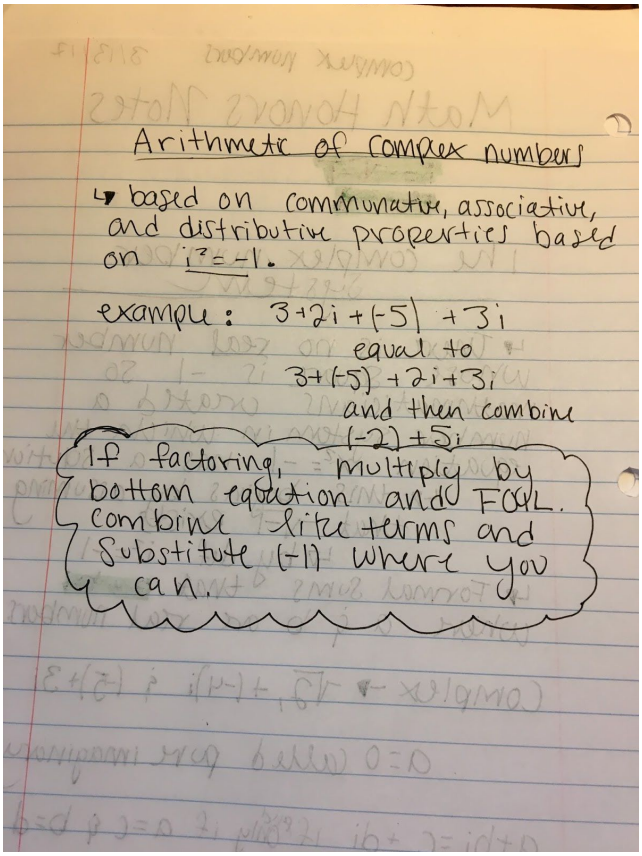
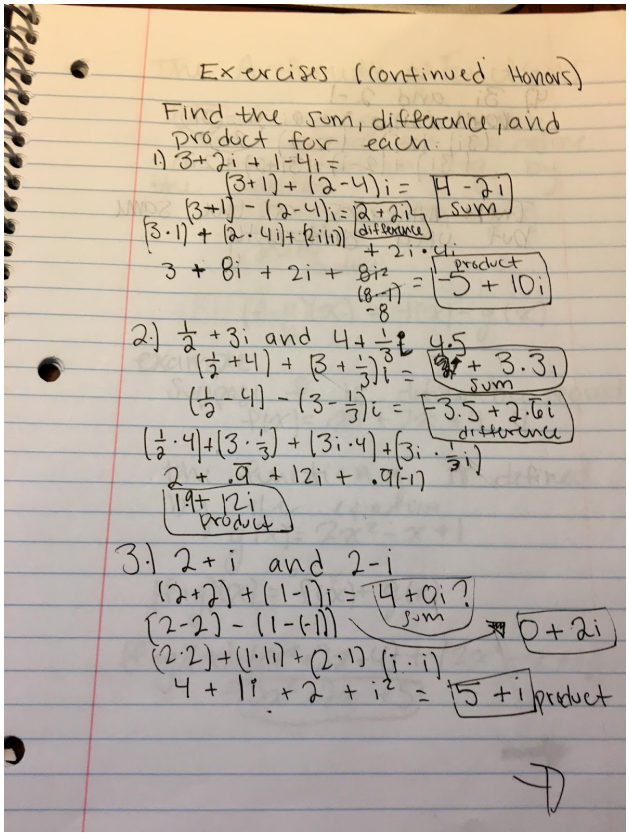
There was nothing I really grappled with in this chapter, I was already familiar with the concept so it was primarily a refresher. To complete this set of notes I used organization while solving the problems so everything could be easily understood.

Beautiful notes and problem set
 



Exercises (continued Honors)

Find the sum, difference, and product for each:

1) $3+2i$ and $1-4i$

$(3+1)+(2-4)i = 4-2i$ sum

$(3+1)-(2-4)i = 2+2i$ difference

$(3\cdot1)+(2\cdot4i)+(2i\cdot1)+(2i\cdot-4i)$

$3+8i+2i+8i^2$ $(8\cdot-1)$ -8

$= -5+10i$ product

2) $\frac{1}{2}+3i$ and $4+\frac{1}{3}i$ 4.5

$(\frac{1}{2}+4)+(3+\frac{1}{3})i = 4.5+3.3\overline{3}i$ sum

$(\frac{1}{2}-4)-(3-\frac{1}{3})i = -3.5+2.\overline{6}i$ difference

$(\frac{1}{2}\cdot4)+(3\cdot\frac{1}{3})+(3i\cdot4)+(3i\cdot\frac{1}{3}i)$

$2+.9\overline{9}+12i+.9(-1)$

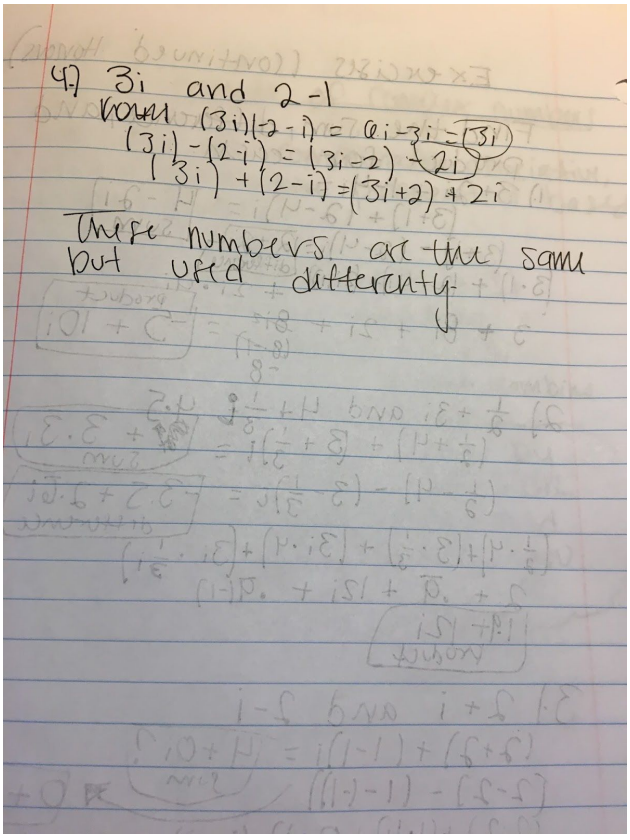
$1.9+12i$ product

3) $2+i$ and $2-i$

$(2+2)+(1-1)i = 4+0i$ sum $\rightarrow 0+2i$

$(2\cdot2)+(1\cdot1i)+(2\cdot1)+(i\cdot i)$

$4+1i+2+i^2 = 5+i$ product



4) $3i$ and $2-i$

$(3i)+(2-i) = 0i-3i = -3i$

$(3i)-(2-i) = (3i-2)+2i$

$(3i)+(2-i) = (3i+2)+2i$

These numbers are the same but used differently.