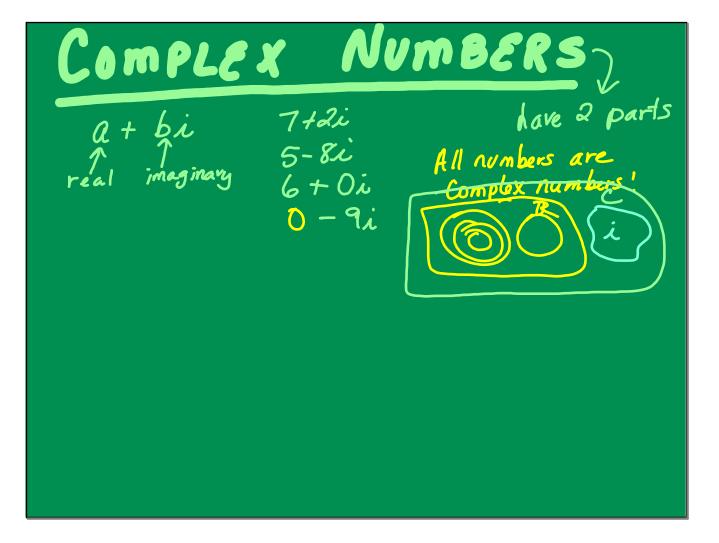
IMAGINARY NUMBERS $\dot{\lambda} = \sqrt{-1}$ V-69 = 82 $\dot{l} = \dot{l}$ 0 as j = j $i^{2} = i \cdot i = \sqrt{-1} \cdot \sqrt{-1} = -1$ 0.5 j = $i^{3} = i^{2} \cdot i = -1 \cdot i = -i$ = :2 . : 2 = - 1 . - 1 = 1 0.00 s= it · i = \ · i = i I won! I won! $\dot{\lambda}^{6} = \dot{\lambda}^{4} \cdot \dot{\lambda}^{2} = 1 \cdot -1 = -1$ (with 2 negativos in middle) 23 = 1 = -1 4 23 $\frac{3}{4} = 5(15)$ $\frac{350}{2} = \frac{350}{12} = \frac{370}{2} = \frac{370}{12} = \frac{370$ 1.75 31 16.25 50.75 31 - 2165 203 31 - 2165 + 1 $3(i^{3})-2(i)+(i^{3})$ 3(-i) - 2i + - i - 31 - 21 - L = - 6 j

 $\begin{array}{l}
\sqrt{-6} \circ \sqrt{-32} \\
\frac{16}{2} \\
= 1 \\
\overline{10} \\
\sqrt{-6} \circ 4 \\
\frac{16}{2} \\
\sqrt{2} \\
-4 \\
\overline{10} \\
\sqrt{2} \\
\sqrt{2} \\
\frac{9}{3} \\
= 4 \\
(-1) \\
(2 \\
\sqrt{3}) \\
= -8 \\
\sqrt{3}
\end{array}$ $3x^{2} + 65 = 11$



Addition/Subtraction (7+3i) + (9-8i) = 16-5i (12-7i) + (+3+i) = [15-9i]Multiplication (6-8i) (5+2i) Eac! = 30+ 12i-401+16/ = 46-28i $(2-7i)^2 = (2-7i)(2-7i)$ = 4-14i-14i + 49; = -45-28i

) IVISION $=\frac{5\sqrt{7}}{14}\left(\begin{array}{c}\frac{2+3\sqrt{2}}{5-4\sqrt{2}}\left(5+4\sqrt{2}\right)\\ \hline 5-4\sqrt{2}\left(5+4\sqrt{2}\right)\end{array}\right)$ $\frac{5}{2\sqrt{7}}\sqrt{7}$ $\frac{4+2i}{3+5i} (3-5i) \\ (3-5i) \\ FL$ <u>si</u> $\frac{8}{3i} \cdot i = 8$ - 82 $\frac{(2 - 20 i + 6i + 10)i^2}{9 + 25 i^2}$ 22-14i 34

