COMPLEX NUMBERS RENEW = 9 + 5i0.00 j 4 = 1 C) $2i^{35} - 3i^{109} + i^{200}$ $\frac{35}{7} = 805$ $\frac{109}{7} = -.25$ $\frac{200}{7} = 50.0$ 213-31 + -2i - 3i + 1 = -5i + 1

$$f) -\frac{7+6i}{9-4i} (9+4i) For \frac{7+2\sqrt{3}}{8-3\sqrt{3}} (8+3\sqrt{3})$$

$$= \frac{-63-28i+59i+29i^{2}}{81+16i^{2}} \sqrt{-3} \cdot \sqrt{-48}$$

$$i\sqrt{3} \cdot 4i\sqrt{3}$$

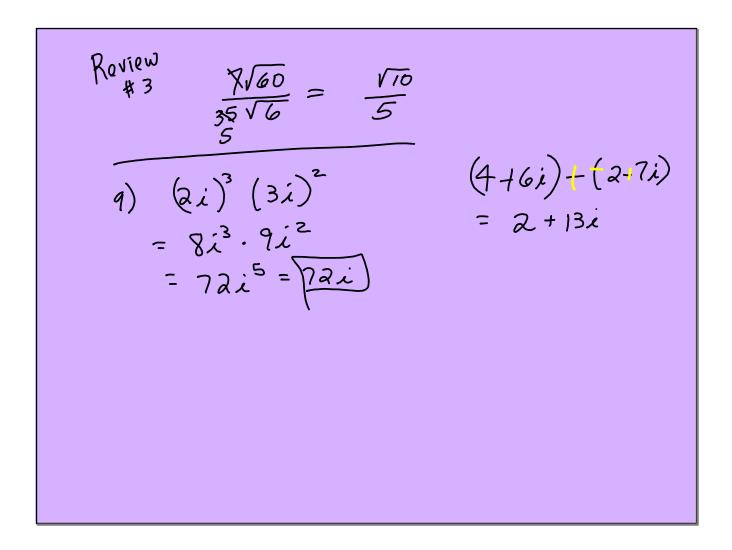
$$= -\frac{87+26i}{97} = -9i^{2} \cdot 3$$

$$= -9i^{2} \cdot 3$$

$$= -12$$

$$\frac{8+2i}{97} - i$$

$$= \frac{8i+2i^{2}}{-9i^{2}} = -\frac{8i-2}{-9i} = -\frac{4i+1}{2}$$



 $\frac{\int_{0} |ve.}{5(\chi+4)^{2} + 17 = 37}}{\frac{5(\chi+4)^{2}}{5} = 20}$ $\sqrt{(\chi+4)^{2}} = \sqrt{4}$ $(3+2\lambda)^2$ = (3+2i)(3+2i)FOIL $x+y = \pm 2$ X=-4+2 $x = -a \quad x = -6$ X=-4tvz X=-2,6