

M\$5 Classwork 5

Complex Numbers Review

- 1) Write the expression $(-i^{21})^9$ in simplest form in terms of i .
- 2) Write in simplest form in terms of i : $3\sqrt{-12} - 3\sqrt{-75} + \sqrt{-48}$
- 3) Express the product of $(4 - 3i)$ and $(2 + i)$ in simplest $a + bi$ form.
- 4) Express the multiplicative inverse of $\sqrt{2} - 3i$ in simplest $a + bi$ form.
- 5) Express $(9 - 4i)^2$ in simplest $a + bi$ form.
- 6) Express the roots of $2(x - 3) = -\frac{5}{x}$ in simplest $a + bi$ form.