Topic:

EQ:

Imaginary Numbers - any number written as a real number multiplied by the imaginary unit *i* which is defined to equal the $\sqrt{-1}$

i =

i^2 =

Simplify the radical:

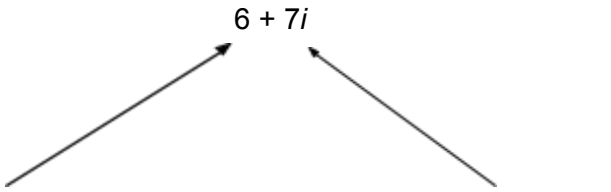
1) $\sqrt{-1}$

2) $\sqrt{-7}$

3) $\sqrt{-25}$

4) $2\sqrt{-5}$

Complex Numbers - any number with a real part and an imaginary part



Let's add/subtract them.

1) (-3 + 9*i*) + (3 + 9*i*)

2) (12 + 5*i*) - (2 - *i*)

3) (-3 - 5*i*) +(4 - 2*i*)

4) $(1+ 5i) - (3 - 2i)$

Time to multiply and find the product!
**Remember $i * i = -1$

1) $(7i)(3i)$

2) $(-3i)(-5 + 2i)$

3) $(4 - 3i)(-1 - 2i)$

4) $(5i)(-6i)$

5) $(-2i)(6 - 3i)$

6) $(9 - 4i)(7 - i)$
7) $(1 + 2i)(2 - 6i)(3 - 9i)$

Summary: