

# Introduction to Imaginary Numbers

scan for answers



Chapter 3: Worksheet 6

Level 1 - Simplify radicals with a negative radicand.

Level 2 - Simplify expressions involving imaginary numbers

Level 3 - Simplify expressions by rationalizing the denominator

## Level 1

**Simplify the radical expression.**

a) $\sqrt{-9}$	b)	c)
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## Level 1 (continued)

m) $\frac{\sqrt{-144}}{3}$	n)	o)
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## Level 2

**Simplify the expression using the distributive property when necessary.**

a) $i + i$	b)	c)
d) $2(3 + i)$	e)	f)

## Level 3

**Simplify the expression by rationalizing the denominator.**

a) $\frac{-1 + 3i}{i}$	b)	c)
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