

Name : \_\_\_\_\_

## Complex Numbers

Sheet 3

Simplify.

1)  $(\sqrt{-1} + 3) - (-11 + 9i)$

2)  $(-16i)(-i - 1)(1 - 3i)$

3)  $\left(\frac{3}{11} - 8i\right) + (-7$

# PREVIEW

$19i)$

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5)  $(-20 - i)(-7 +$

7)  $(8\sqrt{3} - i) + (-\sqrt{12} + 5i)$

8)  $\left(-\frac{4}{5} + 3i\right) - (11i - 5)$

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**Complex Numbers**

Simplify.

1)  $(\sqrt{-1} + 3) - (-11 + 9i)$

**$14 - 8i$**

2)  $(-16i)(-i - 1)(1 - 3i)$

**$32 + 64i$**

3)  $\left(\frac{3}{11} - 8i\right) + (-7$

**$-\frac{19}{11} - 15i$**

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5)  $(-20 - i)(-7 +$

**$139 - 175i$**

7)  $(8\sqrt{3} - i) + (-\sqrt{12} + 5i)$

**$6\sqrt{3} + 4i$**

8)  $\left(\frac{4}{5} + 3i\right) - (11i - 5)$

**$\frac{21}{5} - 8i$**