

Complex Numbers

Simplify.

1) $(-4 - i) + (-2 + 3i) - (6 + 5i)$

2) $\frac{11 - 6i}{5 + 2i}$

3) $\frac{\sqrt{2}(8 - \sqrt{-2})}{i}$

+ 6i)

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5) $(9i)(4i + 12) +$

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7) $\frac{(-8 + 3i)(-i)}{-6 + 2i} - 2i$

8) $(9 - 5i) + (-5i - 4) - \left(\frac{i}{8}\right)$

Complex Numbers

Simplify.

1) $(-4 - i) + (-2 + 3i) - (6 + 5i)$

$$-12 - 3i$$

2) $\frac{11 - 6i}{5 + 2i}$

$$\frac{43}{29} - \frac{52}{29}i$$

3) $\frac{\sqrt{2}(8 - \sqrt{-2})}{i}$

$$-2 - 8\sqrt{2}i$$

5) $(9i)(4i + 12) +$

$$-23 + 111i$$

7) $\frac{(-8 + 3i)(-i)}{-6 + 2i} - 2i$

$$-\frac{1}{20} - \frac{67}{20}i$$

8) $(9 - 5i) + (-5i - 4) - \left(\frac{i}{8}\right)$

$$5 - \frac{81}{8}i$$

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