

WebAssign**Hw 36 (App. H): Complex Numbers (Homework)**

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MA 162 Spring 2012, section 321, Spring 2012

Instructor: Jonathan Montano

Current Score : 20 / 20**Due :** Tuesday, April 24 2012 11:55 PM EDT**1.** 1.66/1.66 points | [Previous Answers](#)

SCalcET7 A.H.002.

Evaluate the expression and write your answer in the form $a + bi$.

$$\left(3 - \frac{1}{2}i\right) - \left(9 + \frac{7}{2}i\right)$$

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SCalcET7 A.H.003.

Evaluate the expression and write your answer in the form $a + bi$.

$$(6 + 3i)(9 - 2i)$$

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SCalcET7 A.H.005.

Evaluate the expression and write your answer in the form $a + bi$.

$$\overline{8 + 5i}$$

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SCalcET7 A.H.007.

Evaluate the expression and write your answer in the form $a + bi$.

$$\frac{5 + 7i}{8 + 4i}$$

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SCalcET7 A.H.012.

Evaluate the expression and write your answer in the form $a + bi$.

$$4i^{140}$$



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SCalcET7 A.H.014.

Evaluate the expression and write your answer in the form $a + bi$.

$$\sqrt{-5}\sqrt{-20}$$



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SCalcET7 A.H.016.

Find the complex conjugate of the number $-2 + 8\sqrt{5}i$.



Find the modulus of the number.

18



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SCalcET7 A.H.020.

Find all solutions of the equation. (Enter your answers as a comma-separated list.)

$$x^4 = 81$$

$x =$

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9. 1.66/1.66 points | [Previous Answers](#)

SCalcET7 A.H.021.

Find all solutions of the equation. (Enter your answers as a comma-separated list.)

$$x^2 + 5x + 7 = 0$$

$x =$

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SCalcET7 A.H.025.

Write the number in polar form with argument between 0 and 2π .

$$-9 + 9i$$

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SCalcET7 A.H.026.

Write the number in polar form with argument between 0 and 2π .

$$4 - 4\sqrt{3}i$$

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SCalcET7 A.H.043.

Write the number in the form $a + bi$.

$$6e^{i\pi/3}$$

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