## **Standard #5 Model Assessment Items**

## **Computational and Procedural Skills**

- 1. Identify the real and complex parts of each: A. -3+6i
  - B. 7*i*
  - C. 12
- 2. Simplify: A.  $-\sqrt{-25}$ B.  $\sqrt{-24}$
- 3. Calculate the absolute value of the following A. 1+2i

- B. 3*i* D. -4-5iC. -2+3iE. 3 - 5i
- 4. Write the conjugate of each complex number: A. 6 C. 2-5iE. 4 + 8iB. 4*i* D. -6-3iF. -5+9i

## **Conceptual Understanding**

- 1. Determine the conjugate of each term. Graph each number and its conjugate in the complex plane. Explain how they are the same and how they are different. A. 2 G. 4-6iD. -4*i* 
  - B -3 E. 3 + 6iH. -5-iF. -2 + 3iC. 2*i*
- 2. Sketch a diagram that shows the absolute value of the following: A. 1+2iD. -4-5iE. 3 - 5i
  - B. 3*i*
  - C. -2+3i
- 3. From the standard form of a complex number, a + bi, explain what a and b represent.

## Cal-PASS Algebra II California Content Standards Deconstruction Project Version 2.0