Math 4 Honors Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Lesson 4-6 Learning Check Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

In this learning check, you will be assessed the following learning goals:

* *Given a complex number in standard form or rectangular form, I can re-express it in trigonometric or polar form and vice versa.*
* *I can find the product and quotient of two complex numbers expressed in trigonometric form.*

1. Write the following number in **trigonometric form**. *Round to the nearest 100th*.

*Z =* -8 – 6*i*

2. Write the following number in **standard form**. *Keep your answer exact*.



3. Consider the following two numbers: 

1. Calculate . Write your answer b. Calculate . Write your answer

in **polar form**. in **rectangular form**.