Math 1150 - Autumn 2017

Name: _____

Quiz 10; Form A - In Class (10 pts)

Recitation Time:

SHOW ALL WORK!!! Unsupported answers might not receive full credit. Furthermore, please give me EXACT answers, not decimals. You have 10 minutes to complete this quiz.

Problem 1 [4 pts] Consider the triangle ΔABC with sides a = 501, b = 202, and c = 400. Find the measure of the largest angle, rounding to the nearest degree.

Problem 2 [4 pts] Use De Moivre's Theorem to evaluate $[4(\cos\frac{4\pi}{3} + i\sin\frac{4\pi}{3})]^3$. Do not leave your answer in polar form; write it in a + bi form.

Problem 3 [2 pts] Given that $\mathbf{v} = -3\mathbf{i} + 4\mathbf{j}$ and $\mathbf{w} = 7\mathbf{i} + 2\mathbf{j}$, find the component form of $-2\mathbf{v} + 3\mathbf{w}$.