ME 285 Mechatronic Systems Engineering

<u>Homework #5:</u> Op-Amps and Amplifiers

1. Design a non-inverting amplifier with a gain of 5.

2. Design an inverting amplifier with a gain of –100

3. Suppose you encountered the following circuit. Derive $V_{out}(t)$ for this amplifier. Considering what mathematical function it performs on $V_i(t)$, what would you call this circuit?