1. What is the name of this course? A) Fluids 1  B) Mechanics 1  C) Statics 1  D) Calculus 1  E) Circuit

2. In Circuit 1, the node voltages have already been computed. What value of current $I_x$ (in amps) in Circuit 1? A) -4.375  B) -2.875  C) 3.125  D) 6.875  E) None of A-D

3. Which is a valid Mesh Analysis equation for Mesh 1 of Circuit 2? A) $10I_1 + 6I_2 = -2$  B) $10I_1 + (-6)I_2 = 8$  C) $10I_1 + (-6)I_2 = 2$  D) $4I_1 + 6I_2 = -3$  E) None of A-D

4. Which is a valid Mesh Analysis equation for Mesh 2 of Circuit 2? Units are understood to be $\Omega$, $A$, $V$. A) $(-6)I_1 + 21I_2 = -5$  B) $(0)I_1 + 15I_2 = 5$  C) $6I_1 + 21I_2 = 5$  D) $(-6)I_1 + 15I_2 = -5$  E) None of A-D

Quiz 6 (9/27/2017)

To check 3 & 4, solve for:
- $I_1 = 0.0069$ A
- $I_2 = -0.218$ A

Then check KVL around outer loop:

$$3 + 4I_1 + 7I_2 + 8I_2 = 3 + 0.276 + (-1.526) + (1.747) = 0$$