## EE 475 Quiz #3

Name: Solution

- 1. For an ideal op amp, its
  - a. Vp Vn =
  - b. Ip = In = \_\_\_\_\_\_
  - c. Rin = \_\_\_\_\_
  - d. Ro = \_\_\_\_\_\_
  - e. DC gain = \_\_\_\_\_\_\_
- 3. In modeling electric circuits, name two most important physical laws: KCL, KVL, Charge conservation, energy conservation.
- 4. In modeling mechanical motions, name two most important physical laws: Newton's law Enler's law, Lagrange principle, conservation of energy, conservation of mass, Hooke's law.