

- 1. Which of the above second order systems has the shortest settling time?
 - a. First
 - b. Second
 - c. Third

- 2. What is the confidence interval, CI, for a 3rd order polynomial fit with 90% certainty of a 12 point calibration data set? $y_c = \sum_{i=0}^{3} a_i x^i \pm CI$ (90%)
 - a. $\pm (t_{8,90}S_x)$
 - b. $\pm (t_{8,90}S_{xy})$
 - c. $\pm (t_{8,90}S_{xy}/\sqrt{12})$
 - d. $\pm (t_{9,90}S_{xy})$
 - e. None of the above
- 3. A "U" tube manometer is a "null device".
 - a. True
 - b. False
- 4. The static sensitivity of a elastic deflection transducer is directly proportional to the transducer input impedance.
 - a. True
 - b. False

