

# **PART I: SOLUTIONS TO PROBLEMS**

# 1 INTRODUCTION

- 1.1** Develop your personal definition for the practice of surveying.

Answers will vary by response. See Section 1.1 for book definitions.

- 1.2** Explain the difference between geodetic and plane surveys.

From Section 1.4,

In geodetic surveys the curved surface of the earth is considered by performing the computations on an ellipsoid (curve surface approximating the size and shape of the earth). In plane surveys, except for leveling, the reference base for fieldwork and computations is assumed to be a flat horizontal surface. The direction of a plumb line (and thus gravity) is considered parallel throughout the survey region, and all measured angles are presumed to be plane angles.