

# MID-TERM EXAM 2 REVIEW

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## GENERAL LEVELING ISSUES

- Define: leveling, elevation, mean sea level, Father Point, NAVD 88, vertical line, level line, horizontal line, benchmark, turning point, backsight, foresight, height of instrument, intermediate sight
- Define: differential leveling, profile leveling, cross-sectioning, trigonometric leveling, reciprocal leveling, barometric leveling
- Types of levels: dumpy level, automatic level, tilting level, digital level

## PROBLEMS

- Earth curvature and refraction
- Differential leveling
- Determining sensitivity of a level bubble
- Performing arithmetic checks on leveling
- Peg test adjustment
- Trigonometric leveling computations
- Level loop adjustment

## ANGLES AND DIRECTIONS

- Definitions: zenith, nadir, closing the horizon, azimuth, bearing, isogonic line, isogonic chart
- Meridians: geographic, grid, magnetic
- Horizontal angles: deflection angles, interior and exterior angles, angles to the right