FINAL EXAM REVIEW

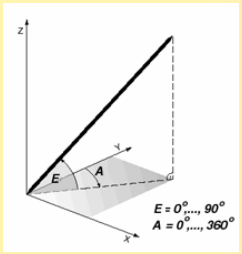
Robert Burtch
Surveying Engineering Department
Ferris State University

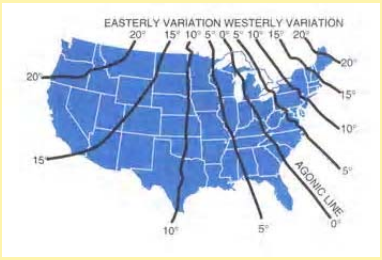
CHAPTERS AND READINGS

- Chapters 4, 5, 6, H.4
- Web page items
  - PowerPoint slides
  - Traversing and Traverse Adjustment notes
- Sample Exam Questions from Previous Tests on web page
- Format
  - True-False, Multiple Choice, Problems (about 75%)

ANGLES AND DIRECTIONS

- Definitions: meridians (geographic, grid, magnetic), magnetic declination, isogonic line, isogonic chart
- Compute azimuth and bearings
  - Forward and reverse directions



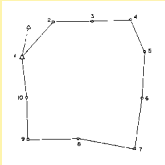


THEODOLITES

- Repeating v directional instrument
- Repeating an angle, double centering
- Relationship of adjusted theodolite/transit
- Closing the horizon

TRAVERSE COMPUTATIONS

- Open v closed traverse
- Balancing angles/directions, computing latitudes and departures
- Determine traverse precision and accuracy
- Traverse adjustment: Compass Rule (Bowditch Method), Transit Rule
- Computing coordinates: Northings-Eastings
- Computing adjusted distances/directions
- Computing area: DMD, coordinates



STADIA

- Principles of stadia measure
- Determine elevation at rod from stadia measurements
- Inclined stadia principles