1. stress has no invariant phonetic correlates: intensity, duration, pitch
2. sources of data: i) speaker judgments: America, Alabama, hurricane, Tennessee, pontoon, carbide, permit (v), permit (n), Apalachicola, Constantinople, sensationality; ii) phonological processes: vowel reduction, flapping ('atom vs. atomic')—loss of contrast (Italian, Shanghai Chinese); iii) site of nuclear pitch accents in intonation tunes.

   assimilation  declarative  assimilation  interrogative  assimilation  "predictable"
   preliminary   preliminary   preliminary
   monsoon       monsoon       monsoon

3. some cross-linguistic properties that distinguish stress from other phonological features like nasality
   i) greater than binary distinctions
   ii) never assimilated
   iii) apparent nonlocality: Cairene: '321, 43'21, 54'321, 6543'21
   v) heavy syllables attract stress: CVV (heavy), CV (light), CVC (variable)
   vi) culminativity: one syllable per word/phrase singled out as strongest

4. some rules of English:
   Compound: leftmost element enhanced if second is not branching (parsing cue?)
   blackboard  law degree  law degree requirements
   law degree requirements changes vs. law degree language requirements
   Nuclear Stress Rule: black board, red shirt, drink beer, John's book, found out
   Rhythm Rule: 3 2 1 -> 2 3 1 Christine, Christine Smith but Lamont Cranston
   Kalamazoo, Kalamazoo Michigan; totalitarian tendencies Constantinople trains

5. the metrical grid (Liberman '75): graphic representation of prominence; two dimensional array of positions and prominence:

   line-2  *          *          *
   line-1  *          *          *          *
   line-0  * * * *   * * * *   * * * *   * * * *

   America  hurricane  Tennessee

6. Prince '83: "move-x" and the Continuous Column Constraint: asterisk on line n must have asterisk on n-1

   line-3  *
   line-2  <->  *  *
   line-1  *  *  *  *
   line-0  * * * *  * * * *  Kalamazoo  Michigan

Homework-
1. Transcribe the stress contours of the following English words. Use numbers to indicate the degrees of stress--1 for the highest (primary stress), 0 for no stress, 2 for secondary, 3 for tertiary, etc.

   engineer   hurricane   gasoline   Argentina
   Alabama    metaphysical honorarium   elementary
   electricity onomatopeia

Check your answer by looking the words up in a dictionary that marks different degrees of stress and read the explanation for stress notation employed in your dictionary.

2. Transcribe the stress contours of the following paradigm of words. Graphically illustrate the degrees of stress using the metrical grid representation.

   Alewife
   Alewife Brook
   Alewife Brook Parkway

3. Transcribe the stress contours of the following minimal pair; represent them in the metrical grid; how might the contrast be explained? Is Prince's Continuous Column Constraint relevant? How?

   an antique chair   an antique dealer