

**My Office Hours:** M & W 2:30–4:00, Tu 2:00–3:30, & F 1:30–2:30 or by appointment. **Math Intern:** Sun: 2:00–5:00, 7:00–10pm; Mon thru Thu: 3:00–5:30 and 7:00–10:30pm in Lansing 310. Website: <http://math.hws.edu/~mitchell/Math131F15/index.html>.

☛ *Practice*

Practice: Try p. 407ff #9, 11, 23, 31, 35, 41, 43, 45.

*Hand In Next Class:*

WeBWorkDay11 (Saturday). Day 11 contains some new and some review material.

1. Suppose that the velocity of an object along a straight line is  $v(t) = t^3 - 4t^2 + 3t$  m/s on the interval  $0 \leq t \leq 4$ .
  - (a) Determine when the object is moving forwards and when it is moving backwards during  $[0, 4]$ .
  - (b) Determine the displacement (net distance travelled) on the interval  $[0, 4]$ .
  - (c) Determine the  $v_{\text{ave}}$  on the interval  $[0, 4]$ .
  - (d) Determine the TOTAL distance travelled on the interval  $[0, 3]$ . (NOT  $[0, 4]$ .)
2. Page 408 #30.
3. Page 408 #32.
4. Page 408 #42. Do part (b) first, then part (a).
5. Page 410 #60(a,b). Time is measured in minutes.