

AME 60611

Homework 3

Due: Friday 9 September 2005, in class

1. Kaplan, p. 628: 2a,c; plot  $y(x)$  for each for a set of initial conditions of your choice.
2. Kaplan, p. 629: 9b
3. Kaplan, p. 633: 6d; plot  $y(x)$  if  $y(0) = 1, y'(0) = 0, y''(0) = 0, y'''(0) = 0$ .
4. Kaplan, p. 634: 9d; plot  $y(x)$  if  $y(0) = 1, y'(0) = 0$ .
5. Course notes, p. 45: 1.8
6. Course notes, p. 45: 1.10
7. Course notes, p. 64: 2.7.
8. Course notes, p. 64: 2.9d
9. Course notes, p. 86: 3.11
10. Course notes, p. 86: 3.14