

AME 60611

Homework 3

Due: Friday 11 September 2009, in class

1. Kaplan, p. 628: 2a,c; plot  $y(x)$  for each.
2. Kaplan, p. 629: 9d
3. Kaplan, p. 633: 6d; plot  $y(x)$  if  $y(0) = 1, y'(0) = 1, y''(0) = 0, y'''(0) = 0$ .
4. Kaplan, p. 634: 9e; plot  $y(x)$  if  $y(1) = 1, y'(1) = 0$ .
5. Course notes, p. 46: 1.8
6. Course notes, p. 47: 1.12
7. Course notes, p. 67: 2.6
8. Course notes, p. 67: 2.9c
9. Course notes, p. 89: 3.10
10. Course notes, p. 89: 3.13