MAT 1320 E Assignment 1 (Due Wed. Sept. 29th, 19:00) Student Number:

Problem 1: §1.3 \#50
Answers:
(a) $f(g(1))=$
(b) $g(f(1))=$
(c) $f(f(1))=$
(d) $g(g(1))=$
(e) $(g \circ f)(3)=$
(f) $(f \circ g)(6)=$

## Problem 2: §1.5 \#30

## Work:

## Answers:

(a) number after 3 hours is
(b) number after $t$ hours is
(c) number after 40 minutes is

Problem 3: §1.6 \#50
Work:
Answers:
(a) $x=$
(b) $x=$

Problem 4: §2.1 \#6

## Answers:

(a) (i) on $[1,2], v_{\text {avg }}=$
(ii) on $[1,1.5], v_{a v g}=$
(iii) on $[1,1.1], v_{\text {avg }}=$
(iv) on $[1,1.01], v_{a v g}=$
(v) on $[1,1.001]$, vavg $=$
(b) $v(1) \approx$

Problem 5: §2.6 \#14
Work:

Answers:
(a) $v(1)=$
(b) $v(a)=$
(c) $t=$
(d) $v=$

Problem 6: §2.7 \# 44
Answers: (i) position is curve
(ii) velocity is curve

