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Your Name:

Your GT id:

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Nlath 1501]) Midterm 1

September 15, 2010

TO RECEEVE CREDIT YOU MUST SHOW ALL YOUR and WRITE

- . I11s@ruc-.t0r: Huy Huynh Please circle your section

NEATLY. Be sure to explain your answers.

The f01‘ma.t- W15 be closed book, closed notes and 110 cell phones, b1a,ckberries or other

There are 7 problems on 8 pages.

Time Ellowedz 50 minuies

Problems

Points

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[5 pis) Find fog and its domain. . (b) (5 pts) Find gof and its domain.

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Problem 3. (20 points) Evaluate the 1imit(s) that e>dst(s); write otherwise and

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Problem 5. (10 points) Using the deﬁnition of difYe1"ent.iati0n:

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Pr0b]em 7. (10 points) As air is pumped into a. spllerictal balloon, the radius increases at the constant rate of 1 cm/s. ‘Nhat is the rate of change of the balloozfs volume when the radius is 5 cm? (You can leave vr in you: answer).