
AMS 361: Applied Calculus IV by Prof. Y. Deng

Short Test 1: 09/17/2019 Tuesday 7p-8:20p Frey 100

- (1) Closed Book with 1-page (double-sided 8.5x11) self-prepared.
- (2) Do any two of the three problems.
- (3) If all three are attempted, the best two (and only two) will be credited.
- (4) Each problem is worth 7.5 points for a total of 15 points (max).
- (5) No points for solutions without appropriate intermediate steps.
- (6) Partial credits are given only for steps that are relevant to the solutions.
- (7) No name, no grade and no request will be answered.
- (8) No SBU ID card, no test.

SB ID		
Name		
Problems	Score	Remarks
T1-1		
T1-2		
T1-3		
Total Score		

T1-1 (7.5 Points): Find the GS of

$$2x^2y' - 2xy - (\cos x)y^3 = 0$$

T1-2 (7.5 Points): Find the GS of

$$y' + 1 - 2xy = x^2 + y^2$$

T1-3 (7.5 Points): Find the GS of

$$xy' = 3xy - 2y \ln y$$

Hint: Consider sub: $v = \ln y$.