EXAM 3

Math 212, 2015-2016 Fall, Clark Bray.

You have 50 minutes.

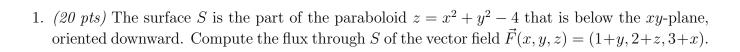
No notes, no books, no calculators.

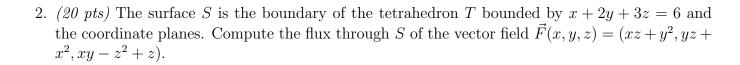
YOU MUST SHOW ALL WORK AND EXPLAIN ALL REASONING TO RECEIVE CREDIT. CLARITY WILL BE CONSIDERED IN GRADING.

All answers must be simplified. All of the policies and guidelines on the class webpages are in effect on this exam.

Good luck!

Name	e	
	Standard in	the Duke Community completing this ination."
1		
2	Signature:	
3		
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	Total Score	(/100 points)





3. (20 pts) The curve C is parametrized by $\vec{r}(t) = (t^2 + 1, 2t - 3t^2, t^3)$, starting at t = 0 and ending at t = 1. Compute the line integral along C of the vector field $\vec{F}(x, y, z) = (ye^{xy} + z, xe^{xy}, x)$.

