## MATH2850 - Elementary Multivariable Calculus, Spring 2014 Quiz 2 \_ > Sluch on S Jan 23, 2014

## Printed NAME.

- You have 10 min to complete your quiz.
- Please show all your work neatly and indicate your final answers clearly
  If you simply write down the final answer without appropriate intermediate steps, you may not get full credit for that problem
- The quiz is closed book and notes Calculators are not allowed

## GOOD LUCK:)

1. Compute the point on the curve  $r(t) = (12 \sin t)\mathbf{i} - (12 \cos t)\mathbf{j} + 5t\mathbf{k}$  at a distance  $13\pi$  units along the curve from the point (0, -12, 0) in the direction of increasing arc length

$$S(t) = 13 \pi = \int_{0}^{t} |2'(u)| du$$

a can be computed from data  $(0, -12, 0)$  is  $R(t)$ 

$$R(t) = 12 \text{ mat } i - 12 \text{ cost} j + 5 + k \Rightarrow |X = 8 \text{ mit } |Y - 12 \text{ cost}|$$

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