



MATH 10A - Multivariable Calculus

Quiz 3 - 2:00 pm Discussion



INSTRUCTIONS: Do all the work on this sheet of paper. Use the back side as scratch paper if you need.

Problem 1

The position vector for a particle moving on a helix is  $c(t) = (\sin(3t), \cos(3t), t^2)$ . Circle the correct answer.

(a) The velocity of the particle at time  $t_0 = \pi$  is

(i)  $2i + 2\pi k$

(iv) The particle is not moving

(ii)  $-3j + \pi^2 k$

(v) None of the previous answers

(iii)  $2i + \pi^2 k$

(b) Is  $c'(t)$  ever orthogonal to  $c(t)$ ?

(i) Yes, when  $t$  is a multiple of  $\pi$

(iii) They are never perpendicular

(ii) Yes, when  $t = 0$

(iv) None of the previous answers

Handwritten calculations for Problem 1(a):  
 $(5\cos(3t), -3\sin(3t), 2t)$   
 $(3\cos(2\pi), -3\sin(2\pi), 2\pi)$   
 $(3\cos(\pi), 3\sin(\pi), 2\pi)$   
 $(-3, 0, 2\pi)$   
 $(3, 0, 0)$   
 $(-3, 0, 0) \cdot (3, 0, 0) = -9 \neq 0$

Problem 2

Let  $f : \mathbb{R}^3 \rightarrow \mathbb{R}$  and  $c(t) : \mathbb{R} \rightarrow \mathbb{R}^3$ . Assume that  $\nabla f(10, 1, \pi) = (1, 3, -7)$ ,  $c(\pi) = (10, 1, \pi)$ , and  $c'(\pi) = (2, 3, 0)$ . Find  $\frac{d(f \circ c)}{dt}$  when  $t = \pi$ .

Handwritten calculation:  
 $(1, 3, -7) \cdot (2, 3, 0)$   
 $2 + 9$

Answer:  $\frac{d(f \circ c)}{dt}$  when  $t = \pi$  is

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# Math 10a Techniques Of Calculus A Fall 2017 Section 9

**Zhe Xu**



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