Department of Mathematics and Statistics
Calculus III - MATH3110 - FALL 2014
Quiz # 2-A

Time: **25 min**.

Name : **ID # :** **Section** :

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1. Find two unit vectors orthogonal to both $a =< 3, 2, 1 >$ and $b =< -1, 1, 0 >$. 5 pts

2. Show that $(a \times b) \cdot b = 0$ for all vectors a and b in space. 4 pts

> > > Please turn over for other questions !

3. Find a parametric equation for the line through the point $A : (1, -1, 1)$ and parallel to the line $x + 2 = \dfrac{y}{2} = z - 3$.

6 pts