KFUPM

MATH 201 QUIZ #2 Sec. 09

Name: ID:

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Q1. If $\vec{a} = \langle 1, -2, -2 \rangle$, $\vec{b} = \langle -1, 0, 1 \rangle$ and $\vec{c} = \text{proj}_{\vec{a}}\vec{b}$, find the scalar $\vec{c} \cdot \left( \vec{a} \times \vec{b} - \vec{a} \right)$.

Q2. Given the points $A(-1, \sqrt{6}, 2)$, $B(-2, 0, 3)$ and $C(2, 0, -1)$, let $M$ be the midpoint of $BC$. Find the angle between $BC$ and the median $AM$.