

QUIZ 3 – Math 213 – Fall 2007
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1. Find the angle between $\vec{i} + \sqrt{3}\vec{j}$ and $\sqrt{3}\vec{j}$

2. Rededuce the formula for $\text{proj}_{\vec{v}}(\vec{u})$

3. What is $3x + 2y + z = 0$? 4. and $\{3x + y = 0, z = 1\}$?

5. What is $1 \leq x \leq 2$ in \mathbb{R}^3 ? 6. and $z \geq 1$ in \mathbb{R}^3 ?

7. What is $x^2 + y^2 = 1$ in \mathbb{R}^3 ?

8. Compute the cross-product of $\langle -5, 2, -4 \rangle$ and $\langle 3, 1, 3 \rangle$

9. Compute the cross-product of $2\vec{i} + 3\vec{k}$ and $\vec{j} + \vec{k}$

10. Compute the area of the parallelogram with vertices $A(0, 0)$, $B(7, 3)$, $C(9, 8)$, $D(2, 5)$