QUIZ 2 – Math 213 – Fall 2007
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1. $\vec{w} = 2\vec{i} + \vec{j} + \vec{k}$, direction of $\vec{w} =$

2. $\vec{v} = 2\vec{j} + 2\vec{k}$, $|\vec{v}| =$

3. $\vec{v} \cdot \vec{w} =$

4. Center of $x^2 + y^2 + z^2 + 4x - 4z = 0$

5. What is $\{x = -1,\ z = 0\}$?

6. What is $x > 0$ in $\mathbb{R}^3$?

7. What is $2x + y - z = 0$?

8. $A(2, -7, 1),\ B(6, -5, 4)$, $\vec{AB} =$

9. $\mathrm{dist}(A, B) =$

10. Components of a unit vector in the plane making a $\pi/3$ angle with the positive x-axis