Math 210, Groves, Quiz 1 Thursday, September 1, 2011, 12pm.

Name:	
Please write clearly and show all of your work.	
Let w be the vector $\langle 1, \sqrt{2}, 1 \rangle$.	
(a) What is $ \mathbf{w} $?	
(b) Find the unit vector in the same direction as \mathbf{w} .	
Let $y = /1 + 2 + 2 $ and $y = /0 + 2 + 1 $ be westers	
Let $\mathbf{u} = \langle 1, 3, 2 \rangle$ and $\mathbf{v} = \langle 0, 2, 1 \rangle$ be vectors.	
(a) What is $\mathbf{u} + \mathbf{v}$?	
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(b) What is $\mathbf{u}.\mathbf{v}$? Is the angle between \mathbf{u} and \mathbf{v} acute or obtuse? What is $\mathbf{u}.\mathbf{v}$?	/ ny :
(c) What is $\mathbf{u} \times \mathbf{v}$?	