Name:	Exercise Type:
J#:	**Quiz**
Date: **2017 June 05**	

Standard: This student is able to...	Mark:
S01: 3DSpace. Plot and analyze points and vectors in three-dimensional Euclidean space.	
3/3 ⋆ reattempt due on:	

In xyz space, sketch the vector $\mathbf{v} = \langle 1, 3, 0 \rangle$, the vector $\mathbf{w}$ pointing from $\langle 1, 3, 0 \rangle$ to $\langle 1, 3, 4 \rangle$, and the vector $\mathbf{v} + \mathbf{w}$.

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Standard: This student is able to...	Mark:
S02: DotProd. Compute and apply the dot product of two vectors.	
2/3 ⋆ reattempt due on:	

Find the work done by a force of 6 units over a distance of 4 units, assuming that the force vector is applied at an angle of $\pi/3$ radians from the displacement vector.

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Standard: This student is able to... **S03: CrossProd.** Compute and apply the cross product of two vectors. 1/3 ⋆ reattempt due on:	Mark:

Prove that $\hat{\imath} \times \hat{k} = -\hat{\jmath}$, either by computing the cross product directly, or by using $\mathbf{v} \times \mathbf{w} = (\|\mathbf{v}\|\|\mathbf{w}\| \sin\theta)\mathbf{n}$.