Quiz 8

Name:		

- 1. Which of the following do NOT make sense?
- (a) $(\mathbf{a} \cdot \mathbf{b}) \times \mathbf{c}$
- (b) $(\mathbf{a} \times \mathbf{b}) \cdot \mathbf{c}$
- (c) $|\mathbf{a}|(\mathbf{b} \times \mathbf{c})$
- (d) $(\mathbf{a} \times \mathbf{b}) + 2005$
- 2. Find the equation of the plane through the point (2, -3, 2) and parallel to the plane containing the vectors $4\mathbf{i} + 3\mathbf{j} \mathbf{k}$ and $2\mathbf{i} 5\mathbf{j} + 6\mathbf{k}$.

3. An object is moved along the curve

$$\mathbf{r}(t) = (t+1)\cos\left(\frac{\pi}{4}t\right)\mathbf{i} + t\sin\left(\frac{\pi}{4}t\right)\mathbf{j}$$

by a constant force $\mathbf{F} = 5\mathbf{i} + 8\mathbf{j}$. How much is the work done from t = 0 to t = 1?