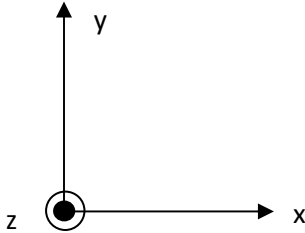


Name:

Physics 200B, Fall 2008

Quiz 6, 11/19/08

For the following questions, use a coordinate axis with axes as shown:



Unit vectors are the standard ones: \hat{i} is in the x direction, \hat{j} is in the y direction, and \hat{k} is in the z direction.

Give your answers in unit vector form.

1. Vector **A** is in the +y direction (\hat{j}), and vector **B** is in the +x direction (\hat{i}). What is the direction of **A** x **B**?

2. Vector **C** is in the +z direction (\hat{k}) and vector **D** is in the +x direction (\hat{i}). What is the direction of **C** x **D**?

3. Imagine that the front wall of the classroom is the xy plane, with x to the right and y up. What is the direction of the angular momentum of the minute hand of the clock? (Hint: you can use the right-hand rule shortcut.)