

QUIZ December 2, 2013

Clicker Instructions: A = True; B = False;

C = I don't know; D = No truth value

correct = 1pt; don't know = 0pt; wrong = 0pt

1. The dot product of $(1, 3, 5)$ and $(2, 4, -3)$ is -1 , no matter which order you do the product in.
2. The length of the longest diagonal in a cube of side lengths a , b and c is $a^2 + b^2 + c^2$.
3. In three dimensional space (coordinates (x, y, z)), write W for the collection of vectors which are orthogonal to $(0, 0, 1)$. Then W consists of exactly the x and y axes (and nothing else).
4. The distance between two vectors is the same as the length of the line joining their tips (when you place them pointing out from the origin).
5. In \mathbb{R}^2 , the orthogonal complement of the x -axis is the y -axis.