

QUIZ 4

Name _____

1. Find the area of the parallelogram formed by the vectors $\langle 1, -2, 1 \rangle$ and $\langle 3, 0, 2 \rangle$.
2. Find the angle between the two vectors $\langle 1, 3, -2 \rangle$ and $\langle 2, 0, -3 \rangle$.
3. A constant force of $\langle 60, -30 \rangle$ pounds moves an object in a straight line from the point $(1, 2)$ to the point $(11, 12)$. Compute the work done.
4. Give a description of the surface generated by the equation $9x^2 + y^2 + 9z^2 = 9$. (That is: name the type and, if relevant, the center and/or radius)