

MATH 10A

Quiz #2

Name:

1. Write down the dot product of (a, b, c) and $(1, 2, 3)$?
2. Express $\|\mathbf{a}\|$ in terms of a dot product.
3. Give the equation that relates the dot product of two vectors \mathbf{a} and \mathbf{b} to the angle θ between those vectors?
4. State the *Cauchy-Schwarz Inequality* for the vectors \mathbf{u} and \mathbf{v} .
5. State the *Triangle Inequality* for the vectors \mathbf{u} and \mathbf{v} .