MATH 251: Practice 2
May 27, 2015

Name: _____

Let $u = \langle 1, 2, 1 \rangle$ and $v = \langle 2, -1, 3 \rangle$.

(a) Compute $u \cdot v$.

(b) Find the angle between u and v. You may leave this as an inverse cosine.

(c) Find the decomposition $u = u_{//} + u_{\perp}$ of u with respect to v.