



Figure II.14: The vector \mathbf{v} being rotated around \mathbf{u} . The vector \mathbf{v}_1 is \mathbf{v} 's projection onto \mathbf{u} . The vector \mathbf{v}_2 is the component of \mathbf{v} orthogonal to \mathbf{u} . The vector \mathbf{v}_3 is \mathbf{v}_2 rotated 90° around \mathbf{u} . The dashed line segments in the figure all meet at right angles.