

### Math 3160 - Quiz 5

Name: \_\_\_\_\_

Let  $\mathbf{v} = (1, 2, -2)$  and  $\mathbf{w} = (-1, 0, 3)$ .

1. Compute the projection of  $\mathbf{v}$  along  $\mathbf{w}$ .
2. Compute the component of  $\mathbf{v}$  orthogonal to  $\mathbf{w}$ .
3. Compute the projection of  $\mathbf{w}$  along  $\mathbf{v}$ .