Worksheet
2/19/2020

Name: _____

1. Show that the operator $(z, w) = z\bar{w}$ is an inner product on $\mathbb{C}$.

See Lecture 18

2. Show that the operator $(z, w) = zw$ is not an inner product on $\mathbb{C}$.

See Lecture 18

3. Let V be a real inner product space. Let u and v be vectors in V that have the same norm. Show that $u + v$ is perpendicular to $u - v$.

See Lecture 18