

Quiz 10 MATH 1540 Fall 2019

Find magnitude + direction of $\langle -1, 2 \rangle$.

Soln:

$$\|\langle -1, 2 \rangle\| = \sqrt{(-1)^2 + 2^2} = \sqrt{5}$$

$$\theta = \pi + \arctan\left(-\frac{2}{1}\right) \approx 2.034 \text{ rad}$$

$$\approx 116.565^\circ$$