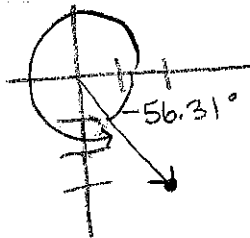


Warmup #3: Magnitude & Direction

Find the magnitude and the direction

for $v = \langle 2, -3 \rangle$

$$\|v\| = \sqrt{2^2 + (-3)^2} = \sqrt{4 + 9} = \boxed{\sqrt{13}}$$



$$\theta = \tan^{-1}\left(\frac{-3}{2}\right)$$

$$\theta = -56.31^\circ$$

$$\begin{array}{r} 360 \\ -56.31 \end{array}$$

$$\boxed{303.69^\circ}$$