Class 1-5 exercise

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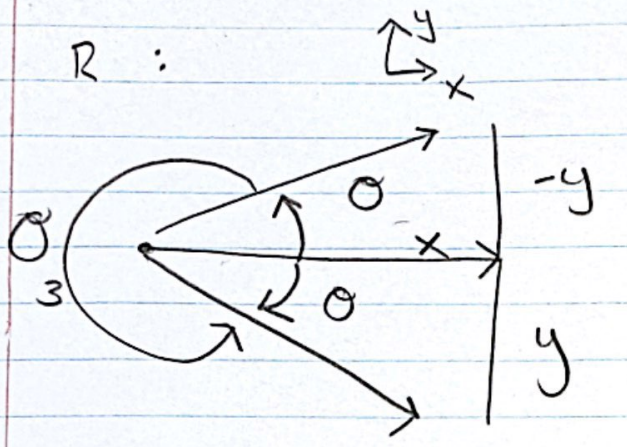
R :



O :

$|V| = 28.1$ $\quad \theta_2 = -\theta_1$

$x = 14.6$ ft

$\sin \theta_1 = y/|V|$

$\cos \theta_2 = \frac{x}{|V|}$

C = $\sin \theta_1 = y/|V| = y|V| \sin \theta_1$, what's θ_1

A: $\cos \theta_2 = \frac{x}{|V|}$ $\quad \cos^{-1}(\cos \theta_2) = \cos^{-1}\left(\frac{x}{|V|}\right) =$

$\theta_2 = \cos^{-1}\left(\frac{x}{|V|}\right)$

1) $\theta_2 = \cos^{-1} \frac{x}{|V|}$

2) $y = |V| \sin(-\theta_2)$

B) full circle is 2π rad or 360° ccw from x

$\theta_3 = (2\pi - \theta_2)$ rad.