

Sección 4.1:

Actividad 34:

$$V = 4i + 5j \quad |\vec{V}| = \sqrt{|4|^2 + |5|^2} = \sqrt{41}$$

$$\vec{V}_{\text{unitario}} = \frac{1}{\sqrt{41}} \cdot (4i + 5j) = \left(\frac{4}{\sqrt{41}}; \frac{5}{\sqrt{41}} \right)$$

$$\vec{V}_{\text{unitario}} = \sqrt{\frac{|4|^2}{\sqrt{41}^2} + \frac{|5|^2}{\sqrt{41}^2}} = \sqrt{\frac{16}{41} + \frac{25}{41}} = \sqrt{\frac{41}{41}} = \boxed{1}$$