

17 (a) Horizontal = 5, vertical = 12

(b) $\|\mathbf{v}\| = \sqrt{5^2 + 12^2} = \sqrt{25 + 144} = \sqrt{169} = 13$; \mathbf{v} is not a unit vector.

(c) $\|\mathbf{v}\|$ represents the length of \mathbf{v} . See *Figure 17*.

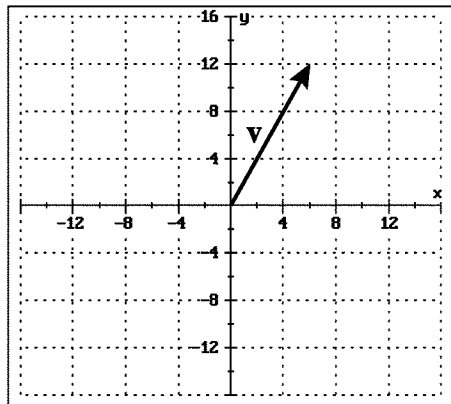


Figure 17