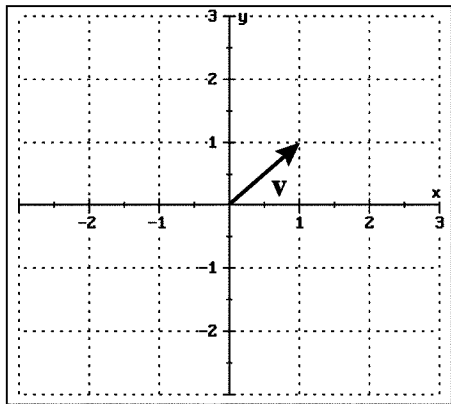


11 (a) Horizontal = 1, vertical = 1

(b)  $\|\mathbf{v}\| = \sqrt{1^2 + 1^2} = \sqrt{1+1} = \sqrt{2}$ ;  $\mathbf{v}$  is not a unit vector.

(c)  $\|\mathbf{v}\|$  represents the length of  $\mathbf{v}$ . See *Figure 11*.



*Figure 11*