(6) Encontrar la longitud de los vectores.

(*a*) $(2,3)$, (*b*) (t, t^2), (*c*) $(\cos\phi, \operatorname{sen}\phi)$.

a) $\|(2,3)\| = \sqrt{\langle (2,3),(2,3)\rangle} = \sqrt{13}$

b) $\|(t,t^2)\| = \sqrt{\langle (t,t^2),(t,t^2)\rangle} = \sqrt{t^2+t^4} = \sqrt{t^2(1+t^2)} = |t|\sqrt{t^2+1}$

c) $\|(\cos\theta, \operatorname{sen}\theta)\| = \sqrt{\langle (\cos\theta,\operatorname{sen}\theta),(\cos\theta,\operatorname{sen}\theta)\rangle} = \sqrt{\cos^2\theta+\operatorname{sen}^2\theta} = \sqrt{1} = 1$