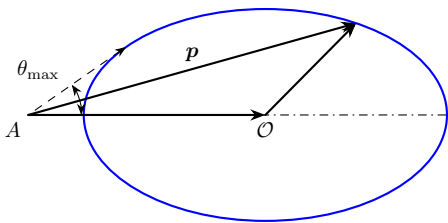


(a) $\|\mathbf{V}\| < \|v_0\|$



(b) $\|\mathbf{V}\| > \|v_0\|$