

Electrodynamics, PHYS832

Problem Set 2

Due: Friday, January 28, 2011

1. Jackson, 11.6. Hint: Use the result from Problem 11.5 where K' is the (instantaneous) position of the particle, so that $\mathbf{u}' = \mathbf{0}$, $a'_{\parallel} = g$ and $a'_{\perp} = \mathbf{0}$. Solve for $v(t)$ by integrating the equation for $a_{\parallel} = d$