

Math 2551 Worksheet Section 13.6

1. Find the velocity and acceleration vectors in terms of \vec{u}_r and \vec{u}_θ if
 - (a) $r = \frac{1}{\theta^2}$ and $\frac{d\theta}{dt} = t^3$.
 - (b) $r = a \cos 2\theta$ and $\frac{d\theta}{dt} = 3t$.