

## Curvature of Curves- HW Problems

1. Find the curvature of the cycloid,  $\gamma(t) = (t - \sin(t), 1 - \cos(t))$ .
  
2. Find the curvature of the following curves:
  - a.  $\gamma(t) = (2t, t^2, \frac{t^3}{3})$
  - b.  $\gamma(t) = (\cosh(t), \sinh(t), t)$
  - c.  $\gamma(t) = (t, t^2, t^2)$