**3B Hyperbolas**

1. The hyperbola $H$ has equation
$4x^{2}-9y^{2}=36$.
2. Sketch $H$.
3. Write down the equations of the asymptotes of $H$.
4. Find parametric Equations for $H$.
5. A hyperbola H has parametric equations

$$x=4\sec(t), y=\tan(t), -π\leq t<π, t\ne \pm \frac{π}{2}$$

1. Find a Cartesian equation for $H$.
2. Sketch $H$.
3. Write down the equations of the asymptotes of $H$.