**8A Finding Cartesian Equations**

1. a) Draw the graph of the function:

$$x=2t y=t^{2}$$

$$-3\leq t\leq 3$$

1. Find the Cartesian equation of the curve
2. A curve has parametric equations:

$x=ln\left(t+3\right)$ $y=\frac{1}{t+5}$

1. Find a Cartesian equation of the curve in the form $y=f(x)$, $x>k$, where $k$ is a constant to be found.
2. Write down the range of $f(x)$