- 1. This problem involves the parametric curve $x = t^2 \frac{1}{t}$, $y = t^3 + t$.
 - (a) Find $\frac{dy}{dx}$.

(b) Find the slope of the tangent to the curve at the point where t=2.

- 1. This problem involves the parametric curve $x = t^2 1$, $y = t^2 + \sqrt{t}$.
 - (a) Find $\frac{dy}{dx}$.

(b) Find the slope of the tangent to the curve at the point where t = 4.