1 | **1**.

1.1 | **a)**

No function possible. It's a function of t but not one of x.

1.2 | **b**)

Done on Geogebra

1.3 | **c**)

I'm too lazy to come up with an actual solution, but the steps is as follows: For the start and end point, we just plug in values for t. We get (25,125-5c) for the starting point, and (49,343-7c) As for the length, we use a modified arc length formula. We take the integral of $\sqrt{\left(\left(\frac{d}{dt}[x(t)]\right)^2+\left(\frac{d}{dt}[y(t)]\right)^2\right)}$ from t=5 to t=7.