Quiz B: Calculus of Parametric Curves   Name_____

Use the following parametric curves to answer each question

$$x=t^2+3t, \ y=t^2-5t+6$$

1.   Find $\dfrac{d^2y}{dx^2}$

2.   Find the leftmost point on the parametric curve from $-2\le t\le 0$

3.   Find the points on the curve where the tangent is horizontal or vertical.

4.   Find the length of the arc on the following interval $0\le t\le 2$