**Math 163
13.2: Derivative and Integrals of Vector Functions
Questions for flipped class**

**(13.2.1)**

Consider the vector equation



Find the derivative and sketch the (a.) plane curve together with the (b.) position vector and (c.) tangent vector at *t* = 2.

 **(13.2.2)**

Find the unit tangent vector of the given curve at the point with the parameter value *t* = 0



**(13.2.3)**



**(13.2.4)**



**(13.2.5)**

Find parametric equations for the tangent line to the curve with the given parametric equations at the specified point.

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 **(13.2.6)**



**(13.2.1 solution)**



**(13.2.2 solution)**

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**(13.2.3 solution)**



**(13.2.4 solution)**



**(13.2.5 solution)**

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**(13.2.6 solution)**

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