## Math 3298 Worksheet 5

Group members	(2  to  4):	
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(1) Compute the curvature of  $g(t) = (t, e^t)$ .

(2) Find the equation for the osculating circle to the curve  $g(t) = (t, e^t)$  at the point (0,1). (The osculating circle is tangent to the curve g at that point, with a curvature equal to the curvature of g at that point. The center of the circle is in the normal direction  $\vec{N}$  away from the contact point.)