

1014-W1-171 **Byungchul Cha*** (cha@hendrix.edu), Hendrix College, 1600 Washington Ave, Conway, AR
72032. *Problems on tangent lines and infinite series.*

We propose two calculus exercises. The first question (Calc I) is about tangent lines to a curve at a point with a singularity. The second problem (Calc II) tries to obtain an approximation to an infinite series, starting from a given partial sum. Using an idea of integral test, one can obtain not only a better approximation but also an error bound of the approximation. (Received August 08, 2005)