- 1. Class notes for this week: This week we have covered Sections 2.3, 2.4, and part of 2.5. Next week we will cover more of Section 2.5, and also Sections 2.7 and 2.6 (in that order).
- 2. Do not forget to do your Prior to Drop Date Assessment on WebWork and pay your WebWork fees.
- 3. (a) (2 points) Find the derivative of the function $h(x) = \frac{\cot x 1}{\csc x}$. (Hint: There is more than one way to do this problem.)
 - (b) (1 point) For what values of x in the interval $[0, 2\pi]$ is the tangent line to h(x) horizontal?

- 4. (a) (1 point) Find the tangent line to the curve $f(x) = \frac{1}{(1+x^2)}$ at the point $(-1, \frac{1}{2})$.
 - (b) (1 point) Sketch a graph of the curve and tangent line from part (a). (This curve is called the **Witch of Agnesi**. You may wish to look up why on Wikipedia.)