

**Exam 1 Extra Extra Credit    Calc 1    Due 9/29/2015**

Each problem is worth up to 3 points.

8. Find all horizontal and vertical asymptotes of  $f(x) = \frac{\sqrt{36x^2 + 7}}{11x + 4}$ .

What can you say about  $\lim_{\theta \rightarrow \pi/2} (\sec \theta - \tan \theta)$ ?