Math 106 - Quiz 7 - March 14, 2008

Instructions: Show all of your work and circle your final answers. Calculators are allowed, but notes and books are not.

1. (10 pts.) Consider the sequence $a_1, a_2, a_3, \ldots$ given by $a_k = \sqrt{k^2 + 1} - k$. Calculate the limit of this sequence.

2. (10 pts.) Evaluate the series $\frac{1}{7} + \frac{1}{14} + \frac{1}{28} + \frac{1}{56} + \ldots$. 
