

Math-13 Sections 01 and 02

Homework #4

**Due: Midnight 9/25**

1. Determine the following limit:

$$\lim_{x \rightarrow \frac{1}{2}} \frac{2x^3 + 9x^2 - 5x}{4x^2 - 1}$$

2. Determine the following limit:

$$\lim_{h \rightarrow 0} \frac{\sqrt{x+h} - \sqrt{x}}{h}$$