

## Quiz

**Directions:** Carefully read each question below and answer to the best of your ability in the space provided. You MUST show your work to receive full credit!

1. (5 points) Compute the following limit:

$$\lim_{x \rightarrow \infty} \frac{7x^5 + 9x}{2x^6 + x^5 - x}.$$

2. (5 points) Consider the function  $f(x) = \sqrt{x+2}$ . Calculate  $f'(x) = \lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h}$ .

Name: \_\_\_\_\_

Section (circle one):            021            022            023            024

Question:	1	2	Total
Points:	5	5	10
Score:			