

Math 181 Quiz 4 Version A

1. Work the following limit problems:

(i) $\lim_{x \rightarrow -5} \frac{x^2 + 3x - 10}{x + 5}$

(ii) $\lim_{x \rightarrow 3^-} \frac{1}{x - 3}$

(iii) $\lim_{x \rightarrow \infty} \frac{2x + 7}{3x - 5}$

(iv) [Extra Credit] $\lim_{x \rightarrow \infty} (\sqrt{x + 3} - \sqrt{x})$