MATH	205 _	Calculus 1	I

SQ 2.4

Name: _____

Date: _____

To receive any credit for the following problems, you must show complete and accurate work. Use proper limit notation and give exact answers unless otherwise noted.

Determine each of the following limits:

1.
$$\lim_{x \to 2^+} \frac{4x}{x^2 - 7x + 10}$$

2.
$$\lim_{x \to 0^{-}} \frac{8 - x^2}{x^3 + 8x^2 - 10x}$$

3. Given $k(x) = \frac{5x^3 - 45x}{x^3 - x^2 - 6x}$, determine all vertical asymptotes, if any, of k(x). Justify that it is an asymptote using the concept of limits.