

First Name _____ Last Name _____ Date ___ - ___ - ___ Period ___ Score ___

Find the following limits. Show all your work.

1. $\lim_{x \rightarrow 3} \frac{(x-3)(x-2)}{(x-3)(x^2+4)}$

2. $\lim_{x \rightarrow 6} \frac{\sqrt{x-2}-2}{x-6}$

3. $\lim_{x \rightarrow -\infty} \frac{3x^3 - x^2 + 4}{6x^3 + x - 6}$

4. $\lim_{x \rightarrow -\infty} \frac{-11x^3 - 6x}{2x^2 - 9}$

5. $\lim_{x \rightarrow \infty} \frac{x^4 - 3x + 5}{-2x^5 + 4x^2 - 23}$