MAT 136 (Calculus I), Prof. Jim Swift
Worksheet 9: Limits at infinity

Evaluate the limit. For full credit (on an exam or quiz), use the rule:

If $\lim\limits_{x\to\infty} f(x)$ and $\lim\limits_{x\to\infty} g(x)$ both exist, and $\lim\limits_{x\to\infty} g(x) \neq 0$, then $\lim\limits_{x\to\infty} \dfrac{f(x)}{g(x)} = \dfrac{\lim\limits_{x\to\infty} f(x)}{\lim\limits_{x\to\infty} g(x)}$.

$$\lim_{x\to\infty} \frac{2x^2 + 3x - 1}{3x^2 - x - 4} =$$