B206 — Transitions to Higher Maths
Chapter 13

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Section 13.2

6. Prove that $\lim_{x\to 1}(4x^2+1) = 5$.

Section 13.4

4. Use Exercise 3 with a limit law to prove that if $\frac{f(x)}{g(x)}$ is a rational function (a polynomial divided by a polynomial), and $g(c) \neq 0$, then $\lim_{x\to c} \frac{f(x)}{g(x)} = \frac{f(c)}{g(c)}$.

Section 13.7

2. Prove that $\left\{\frac{2n^2+1}{3n-1}\right\}$ diverges to ∞