## MATH 140A Review: Helpful Algebraic techniques

- 1. Rewrite  $\sqrt{2} + \sqrt{3}$  as a fraction with no radicals in the numerator.
- 2. Rewrite  $\sqrt{n+2} \sqrt{n-1}$  as a fraction with no radicals in the numerator and then compute the limit as  $n \to \infty$ .
- 3. What is the limit of  $a_n = n^{2/n}$  as  $n \to \infty$ ?