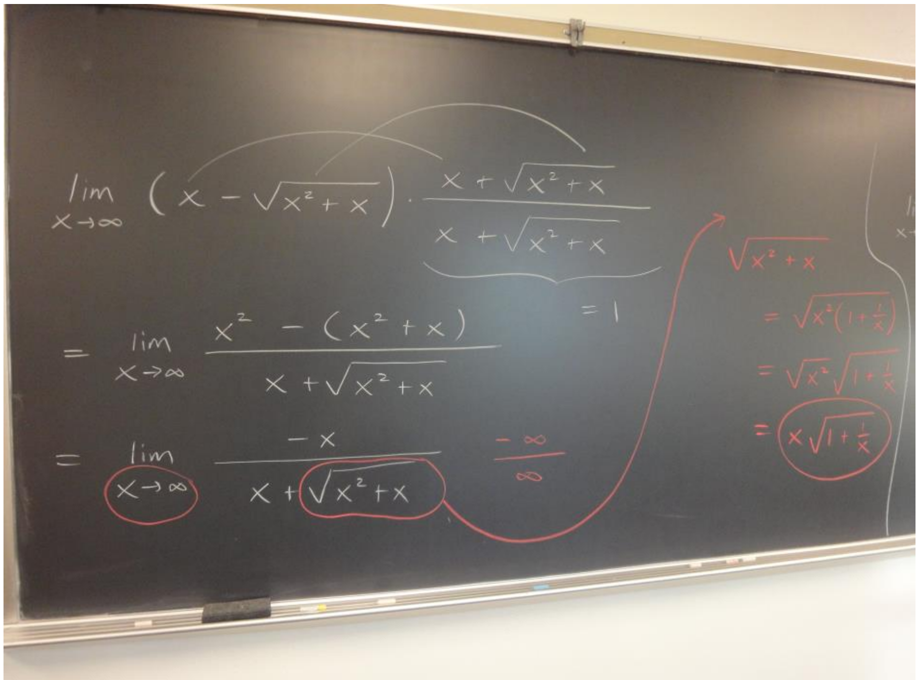
Determining $\lim_{x \to \infty}\left(x - \sqrt{x^2 + x}\right)$ analytically:



And the strong finish: