Quiz 2 — MA16010 — August 30, 2017

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1. (2 points) Find $\lim_{x \to -1} \dfrac{x^2 + x}{x^2 - 3x - 4}$ analytically.

2. (3 points) Let $f(x) = \dfrac{\sin x}{e^{1/x}}$.

   (a) Copy and fill in the following table. Record 6 decimal places on every number you write in the table. Be sure your calculator is in radians mode.

x	0	0.1	0.5	1
$f(x)$	—			

   (b) Use your table from part (a) to find $\lim_{x \to 0^+} f(x)$.