

Quiz 2 Key — MA16010 — August 30, 2017

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Min	Mean	Max
1	3.8	5

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

1/5

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

- (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 $\lim_{x \rightarrow 0^+} f(x)$.

(a)	x	0	0.1	0.5	1
	$f(x)$	—	0.000005	0.064883	0.309560

- (b) $\lim_{x \rightarrow 0^+} f(x) = 0$