Quiz 2 Key — MA161 — August 31, 2018
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Min	Mean	Max
1	16	20

1. (8 points) Solve the equation $e^{5x} = 4e^{2x}$ for x. Show all steps leading to your answer.
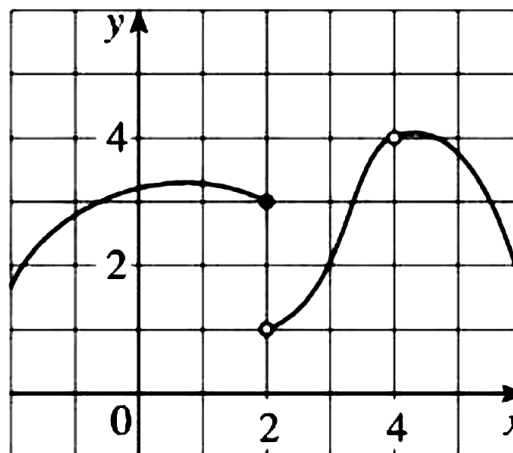
$$x = \tfrac{1}{3}\ln(4)$$

2. (12 points) For the function graphed below, tell whether each of the following statements is true or false.

(a) $f(2)$ is defined.

(b) $\lim\limits_{x \to 2} f(x) = 3$

(c) $\lim\limits_{x \to 2^+} f(x) = f(2)$

(d) $\lim\limits_{x \to 4} f(x)$ exists

(a) True   (b) False   (c) False   (d) True

Note: this problem appeared on the first midterm exam in the spring of 2017.