Math 100. Quiz Sample (only to show the format of the quiz) 2017-xx-xx (xx) **Time 25min**

Section ..... Instructor name .....

Your email .....

There will be a box here to put your first and last name and student number.

- **For each computation of limits in this test, if the limit does not exist, indicate whether it diverges to $-\infty$ or $+\infty$.**
- Simplify all your answers as much as possible and express answers in terms of fractions or constants such as $\frac{1}{100}$, $\sqrt{e}$ or $\ln(4)$ rather than decimals.

1. Each part of this question is worth 1 mark, and the correct answer will get the full mark.

(a) **(1 pt)** Compute

$$\lim_{x \to ??} ??$$

(b) **(1 pt)** Compute

$$\lim_{x \to ?} ???$$

2. Each part of this question is worth 2 marks. **You have to show all your work in order to get credit.**

(a) **(2 pts)** Compute

???

(b) **(2 pts)** Compute

???

3. This question is worth 4 marks. **You have to show all your work in order to get credit.**

Find ??????.