Math 34A Winter 2020
Quiz #5b

No calculators

PRINT NAME

PERM NUMBER

Put your answer in the box provided.

TA: ☐ Trevor ☐ Sam ☐ Garo

Time: ☐ 8am ☐ 5pm ☐ 6pm ☐ 7pm

1. Andi is out for a run. The rate at which Andi burns calories depends on the pace of her run – a faster pace burns calories quicker. Let x be her pace, in minutes per mile, and $f(x)$ be the rate at which she burns calories (in calories per hour) at pace x.

(a) What are the units of $f'(x)$?

(b) If $f(x) = 300/x$, what is the average rate of change between $x = 10$ and $x = 15$?