

PRINT NAME

PERM NUMBER

No calculators

Put your answer in the

box

provided.

TA: ☐ Garo ☐ Trevor
☐ SamTime: ☐ 8am ☐ 6pm
☐ 5pm ☐ 7pm

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

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

(b) If $f(x) = 240/x$, what is the average rate of change between $x = 8$ and $x = 10$?

VERSION A

PRINT NAME

PERM NUMBER

No calculatorsPut your answer in the box provided.**TA:** ☐ Trevor ☐ Sam
☐ Garo**Time:** ☐ 8am ☐ 6pm
☐ 5pm ☐ 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 $x = 15$?

VERSION B