

Let  $f, g$  be continuous functions

Q1: over the interval  $[a, b]$ ,  $g \geq 0$  in the interval.

Prove that there exists  $c \in [a, b]$  such that

$$\int_a^b f(x) \cdot g(x) dx = f(c) \int_a^b g(x) dx$$

Proof:

Since  $f$  is continuous over  $[a, b]$  there exists  $m, M, x \in [a, b]$  such that

$$m \leq f(x) \leq M,$$

Since  $g \geq 0$  I can multiply the inequality while retaining it:  $m g(x) \leq f(x) g(x) \leq M g(x)$

$f$  and  $g$  are integrable at  $[a, b]$ , therefore I'll integrate the inequality with respect to  $x$ :

$$\int_a^b m g(x) dx \leq \int_a^b f(x) g(x) dx \leq \int_a^b M g(x) dx$$

What's next?

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**C Cleary**



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