Quiz 3

This is a preview of the published version of the quiz

Started: Nov 3 at 9:16am

Quiz Instructions

Question 1

1 pts

The velocity v of a wave of length L in deep water is $v = K\sqrt{\frac{L}{C} + \frac{C}{L}}$, where K and C are known positive constants. What is the length L of the wave that gives the minimum velocity?

Question 2

1 pts

Find the inflection point of the function $f(x) = 2 - 2x - x^3$.

- ○ 0

- ○ 1
- ○ 2
- ○ 3

Question 3

1 pts

Find the local minimum point of the function $f(x) = e^x + e^{-3x}$.

- ○ $\ln(3)/4$
- ○ $\ln(4)/3$
- ○ $\ln(4/3)$
- ○ $4\ln(3)$

Question 4

1 pts

Find the local maximum point of the function $f(x) = e^x + e^{-3x}$.

- ○ Does not exist.

- ◯ $\ln(4)/3$
- ◯ 0
- ◯ $-\ln(3)/4$

Question 5

1 pts

If f is even, then f' is even.

- ◯ False
- ◯ True

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