Make-up Quiz 3

⚠ This is a preview of the draft version of the quiz

Started: Jan 5 at 2:04pm

Quiz Instructions

Question 1	1 pts

The velocity v of a wave of length L in deep water is $v = K\sqrt{\dfrac{L}{C} + \dfrac{C}{L}}$, 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

Quiz saved at 2:04pm   Submit Quiz