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Quiz 1

YOU SCORED 30 OUT OF 100

## Question 1

Your answer is CORRECT.

Which of the following are third order differential equations?

- I.  $(y')^2 - xy y' = \cos(x)$
- II.  $y''' + 5xy' + y = e^x + 2$
- III.  $\frac{d^2 y}{dx^2} - 5y \left( \frac{dy}{dx} \right) - x^2 y = \frac{d^3 y}{dx^3}$
- IV.  $\frac{\partial}{\partial y} u = 5k^2 \left( \frac{\partial^2}{\partial x^2} u \right)$

- a)  I
- b)  II, III
- c)  I, IV
- d)  I, II, III
- e)  IV

## Question 2

Your answer is INCORRECT.

Which of the following is a solution for the given differential equation?

$$y'' + 64y = 0$$

- a)   $y(x) = \cos(4x)$

Putkey, John

CLOCK

Start Time 6/12/2017 8:33:13 PM

Time Taken 00:05:07

NAVIGATION

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| [5]<br>Q 1  | [5]<br>Q 2  | [5]<br>Q 3  | [5]<br>Q 4  |
| [5]<br>Q 5  | [5]<br>Q 6  | [5]<br>Q 7  | [5]<br>Q 8  |
| [5]<br>Q 9  | [5]<br>Q 10 | [5]<br>Q 11 | [5]<br>Q 12 |
| [5]<br>Q 13 | [5]<br>Q 14 | [5]<br>Q 15 | [5]<br>Q 16 |
| [5]<br>Q 17 | [5]<br>Q 18 | [5]<br>Q 19 | [5]<br>Q 20 |

TEST INFORMATION

Your Score is: 30

Out of: 100

Time Allowed: 150 min

Total Problems: 20

COLORING LEGEND

|              |           |         |
|--------------|-----------|---------|
| Not Answered | Incorrect | Correct |
|--------------|-----------|---------|