# PHYS 250 Test 5: Photo Upload

# David Yang

#### **TOTAL POINTS**

#### 92 / 100

#### **QUESTION 1**

- 1 10 / 10
  - √ 0 pts Correct
    - 10 pts Not much here I'm afraid
    - 1 pts Calculation error
    - 5 pts Found omega but not T
    - 3 pts Didn't answer b

#### **QUESTION 2**

- 2 10 / 10
  - √ 0 pts Correct
    - 5 pts Motion of point A wil be downwards first
    - 10 pts Not much here I'm afraid

#### QUESTION 3

- 3 25 / 25
  - √ + 6 pts a) Correct
  - √ + 6 pts b) Corrrect
  - √ + 7 pts c) Correct
  - √ + 6 pts d) Correct
    - + 0 pts Not much here I'm afraid

#### **QUESTION 4**

- 4 14 / 15
  - + 15 pts Correct
  - + 0 pts Not much here I'm afraid
  - + 7 pts a) Assumed fundamental was shown, when

in fact 6th harmonic shown. (7/10)

- √ + 5 pts b) Correct
  - + 10 pts a) Correct
  - +8 pts a) Incorrect n used (n=5)
- √ + 9 pts a) Calculation error
  - + 4 pts b) incorrect n used
  - b) Correct given error in A

#### **QUESTION 5**

- 5 33 / 40
  - + 40 pts Correct
  - + 0 pts Not much here I'm afraid
  - √ + 5 pts Shows element on diagram
    - + 5 pts Param. variable clearly defined
    - + 10 pts Correct dm
  - √ + 13 pts Correct dl
  - √ + 5 pts Correct integral setup
  - √ + 2 pts Correct integration
    - + 0 pts parameterizing variable not clearly defined
    - + 9 pts dl correct except "x" term incorrectly written

in terms of param variable

- +8 Point adjustment
  - Show param variable on diagram (3/5). dm incorrect (5/10)
- 1 dx, not x
- 2 no x

K=100N/m a. 选5 m= 2kg W = J50 malls b. 27 5 f- 默兴 T= # 25 havelength is 0.12m 2.5 mare pages for 30cm wave number k = ZIL12cm = 2-7 .12m b. Speel 15 2.4m/s K = 27 = 25 (. 1 / 23 Sin (27 X - 40 T. +) V= 20. 12= 2.4m/s 2. 1.27 m/s W= VK= 27. 20.12: 40x sine whe A SIN (KX + W+6)

2 Th (V)

YOUR WA = 407 3 = 1270

VMM = WA = 407 . 03 = 1.270

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$$f_{n} = \frac{h}{2\nu} \cdot \int \frac{f_{r_{sun}}}{f_{r_{sun}}} \frac{1}{f_{r_{sun}}} \frac{1}{f_{r_{sun}$$

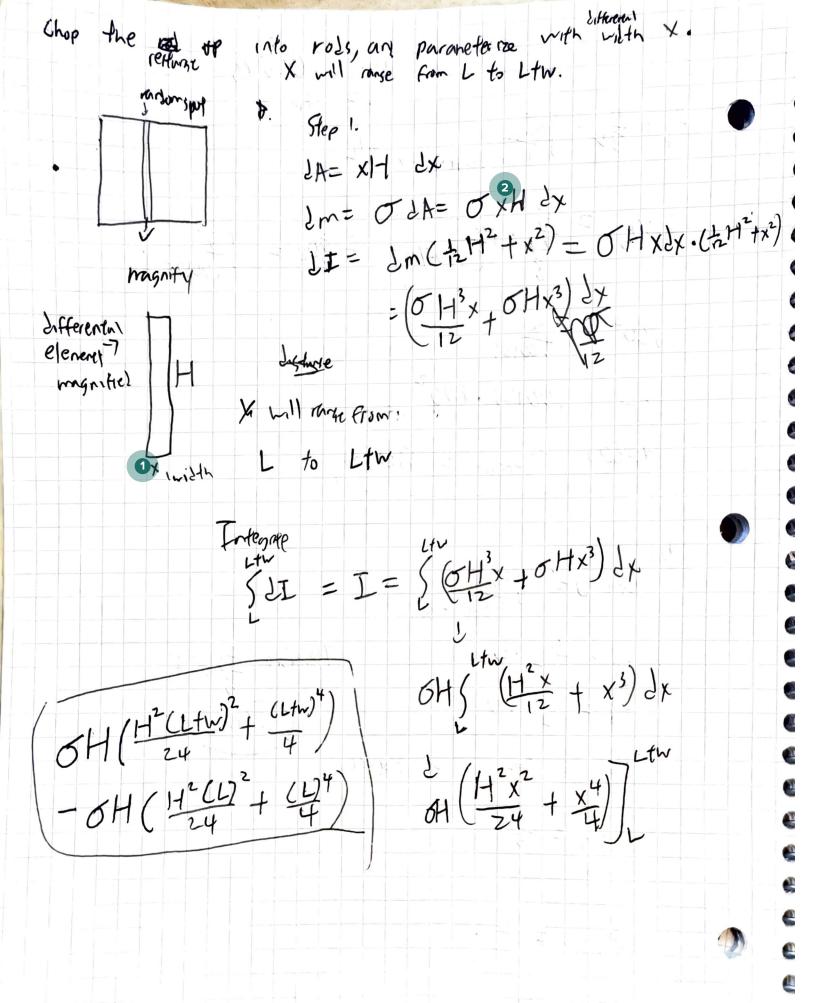
× = 5.0 × = 5. × = 5.

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