20S-PHYSICS1CH-1 Midterm Exam



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QUESTION 1

1 Problem 1 32 / 35

- 1.5 pts mistake in phase velocity (a)
- 1.5 pts mistake in spatial dependence (a)
- 1.5 pts mistake in group velocity (b)
- 3 pts mistake in linear combination (c)

√ - 1.5 pts mistake in propagation velocity (c)

√ - 1.5 pts mistake in comparison (c)

- 5 pts no phase velocity (a)
- 5 pts no spatial dependence (a)
- 5 pts no group velocity (b)
- 0 pts no mistakes
- 10 pts no linear combination (c)
- 5 pts no propagation velocity (c)
- 5 pts no comparison (c)

QUESTION 2

2 Problem 2 40 / 45

- 0 pts Correct
- 3 pts mistake in (a)
- 6 pts 2 independent mistakes in (a)
- 9 pts 3 independent mistakes in (a)
- 12 pts 4 independent mistakes in (A)
- 20 pts no (a)

√ - 3 pts 1 mistake in (b)

- 6 pts 2 mistakes in (b)
- 9 pts 3 mistakes in (b)
- 15 pts no (b)

$\sqrt{-2}$ pts 1 mistake in (c)

- 4 pts 2 mistakes in (c)
- 6 pts 3 mistakes in (C)
- 10 pts no (c)

QUESTION 3

3 Problem 3 39 / 45

- 0 pts Correct

√ - 1.5 pts mistake in (a)

- **5 pts** no (a)
- **1.5 pts** mistake in (b)
- 3 pts 2 mistakes in (b)
- 10 pts no (b)

$\sqrt{-1.5}$ pts mistake in (c)

- 3 pts 2 mistakes in (c)
- 10 pts no (c)

√ - 3 pts mistake in (d)

- 6 pts 2 mistakes in (d)
- 9 pts 3 mistakes in (d)
- 15 pts no (d)
- 3 pts 2 mistakes in (a)
- 6 pts 3 mistakes in (c)

QUESTION 4

4 Problem 4 20 / 20

√ - 0 pts Correct

- 2 pts wrong polarization (a)
- **5 pts** no (a)
- 2 pts wrong angle
- **5 pts** no (b)
- 4 pts wrong shape
- 10 pts no (c)

QUESTION 5

5 Notes submission 5/5

√ - 0 pts Correct













