



MTH 309T LINEAR ALGEBRA
EXAM 1
October 3, 2019

Name:

OZLEM SAHAN

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 5 | 0 | 9 | 7 | 2 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
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MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Mira Esposito

UB Person Number:

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
 - For full credit solve each problem fully, showing all relevant work.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 3 | 9 | 7 | 8 | 6 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

1 2 3 4 5 6 7 TOTAL GRADE



MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Louis Kerner

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 1 | 9 | 9 | 6 | 6 | 8 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

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1 2 3 4 5 6 7 TOTAL GRADE

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**MTH 309T LINEAR ALGEBRA****EXAM 1**

October 3, 2019

Name:

Lauren Kim

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 2 | 0 | 6 | 9 | 9 |
| 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

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1 2 3 4 5 6 7 TOTAL GRADE

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MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Purvi Patel

UB Person Number:

Instructions:

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| | | | | | | | | |
|---|---|---|---|---|---|---|-------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | TOTAL | GRADE |
|---|---|---|---|---|---|---|-------|-------|



MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Eithne Amos

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 0 | 9 | 9 | 0 | 9 |
| 0 | ● | 0 | ● | 0 | 0 | ● | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | ● | ● | 9 | ● |

Instructions:

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1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
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**MTH 309T LINEAR ALGEBRA
EXAM 1**

October 3, 2019

Name:

Mallory Hartlik

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 3 | 1 | 7 | 0 | 3 |
| 0 | 7 | 0 | 0 | 0 | 0 | 9 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
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1 2 3 4 5 6 7 TOTAL GRADE

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MTH 309T LINEAR ALGEBRA
EXAM 1
October 3, 2019

Name:

Romika Sairam

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 3 | 1 | 1 | 0 | 9 | 7 |
| 0 | ● | 0 | 0 | 0 | ● | 0 | 0 |
| 1 | 1 | 1 | ● | ● | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | ● |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | ● | 9 |

Instructions:

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1 2 3 4 5 6 7 TOTAL GRADE

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MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Zachary Ross

UB Person Number:

Instructions:

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 - For full credit solve each problem fully, showing all relevant work.

| | | | | | | | | |
|---|---|---|---|---|---|---|-------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | TOTAL | GRADE |
|---|---|---|---|---|---|---|-------|-------|



MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

Raymond Groesbeck

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 8 | 6 | 2 | 3 | 9 |
| 0 | ● | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | ● | 2 | 2 | ● | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | ● | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | ● | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | ● | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | ● |

Instructions:

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- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

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|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

Miguel Sanz

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 5 | 9 | 1 | 5 | 6 |
| 0 | ● | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | ● | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | ● | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | ● |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | ● | 9 | 9 | 9 |

Instructions:

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1 2 3 4 5 6 7 TOTAL GRADE

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MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

PRANSU TEOTIA

UB Person Number:

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
 - For full credit solve each problem fully, showing all relevant work.

| | | | | | | | | |
|---|---|---|---|---|---|---|-------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | TOTAL | GRADE |
|---|---|---|---|---|---|---|-------|-------|



MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Samia Munmun

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 1 | 8 | 4 | 9 | 9 | 3 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
 - For full credit solve each problem fully, showing all relevant work.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | TOTAL | GRADE |
|--|---|---|---|---|---|---|---|-------|-------|
|--|---|---|---|---|---|---|---|-------|-------|



MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Alexander T. Nowasee¹¹

UB Person Number:

Instructions:

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 - For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE



MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Shuoling Li

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 2 | 0 | 5 | 2 | 0 |
| 0 | 1 | 0 | 0 | 1 | 0 | 0 | 1 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

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 - For full credit solve each problem fully, showing all relevant work.

| | | | | | | | | |
|---|---|---|---|---|---|---|-------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | TOTAL | GRADE |
|---|---|---|---|---|---|---|-------|-------|



MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

Tong Yang.

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 1 | 8 | 7 | 8 | 3 |
| 0 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

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1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
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MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Emily Blanchard

UB Person Number:

- ## Instructions:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 2 | 8 | 8 | 3 | 7 |
| 0 | ● | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

1

2

3

4

5

6

7

TOTAL

GRADE



MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

William Hiltz

UB Person Number:

- ## Instructions:

1

2

3

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5

6

7

TOTAL

GRADE



MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Kunjie Lin

UB Person Number:

Instructions:

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 - For full credit solve each problem fully, showing all relevant work.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 3 | 6 | 7 | 8 | 1 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

| | | | | | | | | |
|---|---|---|---|---|---|---|-------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | TOTAL | GRADE |
|---|---|---|---|---|---|---|-------|-------|

**MTH 309T LINEAR ALGEBRA****EXAM 1**

October 3, 2019

Name:

Cortlandt Chin

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 2 | 8 | 4 | 5 | 4 |
| 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

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1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
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MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Mohammedanas Tai

UB Person Number:

Instructions:

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 - For full credit solve each problem fully, showing all relevant work.

| | | | | | | | | |
|---|---|---|---|---|---|---|-------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | TOTAL | GRADE |
|---|---|---|---|---|---|---|-------|-------|

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|----|



MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Albi Tocilla

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 1 | 5 | 3 | 4 | 7 | 8 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

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 - For full credit solve each problem fully, showing all relevant work.

| | | | | | | | | |
|---|---|---|---|---|---|---|-------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | TOTAL | GRADE |
|---|---|---|---|---|---|---|-------|-------|



MTH 309T LINEAR ALGEBRA
EXAM 1
October 3, 2019

Name:

Jored Scott

UB Person Number:

Instructions:

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 - For full credit solve each problem fully, showing all relevant work.



MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

Luke Baldy

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 7 | 9 | 9 | 8 | 7 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

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1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
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MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

Sam Hogue

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 2 | 8 | 1 | 6 | 8 |
| 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

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- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
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MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Brendan DesRosiers

UB Person Number:

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
 - For full credit solve each problem fully, showing all relevant work.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | TOTAL | GRADE |
|--|---|---|---|---|---|---|---|-------|-------|
|--|---|---|---|---|---|---|---|-------|-------|



MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

Vincent Zheng

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 5 | 8 | 5 | 3 | 9 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
 - For full credit solve each problem fully, showing all relevant work.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | TOTAL | GRADE |
|---|---|---|---|---|---|---|-------|-------|
|---|---|---|---|---|---|---|-------|-------|



MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

Sang Hyun Park

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 3 | 1 | 7 | 4 | 5 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



**MTH 309T LINEAR ALGEBRA
EXAM 1**

October 3, 2019

Name:

Kyle Drapikowski

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 1 | 8 | 2 | 2 | 1 | 4 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | TOTAL | GRADE |
|---|---|---|---|---|---|---|-------|-------|
|---|---|---|---|---|---|---|-------|-------|

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Connor Wilson

UB Person Number:

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
 - For full credit solve each problem fully, showing all relevant work.



MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

Paul Seungyeol Ko

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 1 | 3 | 9 | 3 | 6 | 3 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



**MTH 309T LINEAR ALGEBRA
EXAM 1**

October 3, 2019

Name:

Justin W. Allen

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 9 | 4 | 9 | 4 | 8 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

Devraj Chowdhary

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 1 | 7 | 2 | 0 | 5 |
| 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
 - For full credit solve each problem fully, showing all relevant work.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | TOTAL | GRADE |
|---|---|---|---|---|---|---|-------|-------|
|---|---|---|---|---|---|---|-------|-------|



MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Zacharias Peters

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 2 | 6 | 4 | 8 | 8 |
| 0 | ● | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | ● | ● | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | ● | 4 | 4 |
| 5 | ● | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | ● | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | ● | ● |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

Avery Weissman

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 1 | 3 | 9 | 1 | 3 | 3 |
| 0 | ● | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | ● | 1 | 1 | ● | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | ● | ● |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | ● | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|

**MTH 309T LINEAR ALGEBRA****EXAM 1**

October 3, 2019

Name:

Andrew Jank

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 3 | 8 | 3 | 1 | 6 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | TOTAL | GRADE |
|---|---|---|---|---|---|---|-------|-------|
|---|---|---|---|---|---|---|-------|-------|

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

Dylan Tua

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 3 | 8 | 1 | 2 | 3 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA
EXAM 1
October 3, 2019

Name:

Jacob Vitko

UB Person Number:

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
 - For full credit solve each problem fully, showing all relevant work.



MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Kristyan Aleksandrov

UB Person Number:

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
 - For full credit solve each problem fully, showing all relevant work.

| | | | | | | | | |
|---|---|---|---|---|---|---|-------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | TOTAL | GRADE |
|---|---|---|---|---|---|---|-------|-------|



MTH 309T LINEAR ALGEBRA EXAM 1

October 3, 2019

Name:

Brandon Hosken

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 1 | 8 | 4 | 5 | 0 | 3 |
| 0 | ● | 0 | 0 | 0 | 0 | ● | 0 |
| 1 | 1 | ● | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | ● | 4 | 4 |
| 5 | ● | 5 | 5 | 5 | 5 | ● | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | ● | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
 - For full credit solve each problem fully, showing all relevant work.

| | | | | | | | | |
|---|---|---|---|---|---|---|-------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | TOTAL | GRADE |
|---|---|---|---|---|---|---|-------|-------|

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|----|



MTH 309T LINEAR ALGEBRA EXAM 1

October 3, 2019

Name:

Eoghan McLarroll

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 2 | 7 | 3 | 4 | 2 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



**MTH 309T LINEAR ALGEBRA
EXAM 1**

October 3, 2019

Name:

Ayesha Khatun

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 4 | 3 | 5 | 1 | 4 |
| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ |
| ⑨ | ⑩ | ⑪ | ⑫ | ⑬ | ⑭ | ⑮ | ⑯ |
| ⑰ | ⑱ | ⑲ | ⑳ | ㉑ | ㉒ | ㉓ | ㉔ |
| ㉕ | ㉖ | ㉗ | ㉘ | ㉙ | ㉚ | ㉛ | ㉜ |
| ㉖ | ㉗ | ㉘ | ㉙ | ㉚ | ㉛ | ㉛ | ㉛ |
| ㉟ | ㉟ | ㉟ | ㉟ | ㉟ | ㉟ | ㉟ | ㉟ |
| ㉟ | ㉟ | ㉟ | ㉟ | ㉟ | ㉟ | ㉟ | ㉟ |
| ㉟ | ㉟ | ㉟ | ㉟ | ㉟ | ㉟ | ㉟ | ㉟ |
| ㉟ | ㉟ | ㉟ | ㉟ | ㉟ | ㉟ | ㉟ | ㉟ |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|

**MTH 309T LINEAR ALGEBRA****EXAM 1**

October 3, 2019

Name:

Yanyan Li

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 7 | 5 | 1 | 3 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA
EXAM 1
October 3, 2019

Name:

Liam Carr

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | 0 | 3 | 2 | 0 | 2 | 5 | 3 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

Michael Morgenthal

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 2 | 6 | 6 | 3 | 6 |
| 0 | ● | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | ● | ● | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | ● | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | ● | ● | 6 | ● |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

Patrick Hull

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 9 | 9 | 7 | 8 | 6 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Robert Ann

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 6 | 4 | 6 | 1 | 1 |
| 0 | ● | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | ● | ● |
| 2 | 2 | ● | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | ● | 6 | ● | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | ● | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
 - For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE



MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Julia Shapiro

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 6 | 0 | 8 | 1 | 3 |
| 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
 - For full credit solve each problem fully, showing all relevant work.

| | | | | | | | | |
|---|---|---|---|---|---|---|-------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | TOTAL | GRADE |
|---|---|---|---|---|---|---|-------|-------|



MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Avigail Desantis

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 8 | 5 | 9 | 7 | 3 | 8 |
| 0 | ● | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | ● | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | ● | 5 | 5 | ● | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | ● | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | ● |
| 9 | 9 | 9 | 9 | ● | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | TOTAL | GRADE |
|---|---|---|---|---|---|---|-------|-------|
|---|---|---|---|---|---|---|-------|-------|

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
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MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Marissa Loniewski

UB Person Number:

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
 - For full credit solve each problem fully, showing all relevant work.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 3 | 3 | 5 | 4 | 7 |
| 0 | ● | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | ● | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | ● | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | ● | 4 |
| 5 | ● | 5 | 5 | 5 | 5 | ● | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

1

2

3

4

5

6

7

TOTAL

GRADE



MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

Fahim Noor

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 8 | 0 | 2 | 1 | 1 |
| 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA
EXAM 1
October 3, 2019

Name:

David Palumbo

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 6 | 2 | 8 | 0 | 3 |
| 0 | ● | 0 | 0 | 0 | 0 | ● | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | ● | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | ● |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | ● | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | ● | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Umar Ahmed

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 6 | 3 | 5 | 0 | 9 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
 - For full credit solve each problem fully, showing all relevant work.

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | TOTAL | GRADE |
|--|---|---|---|---|---|---|---|-------|-------|
|--|---|---|---|---|---|---|---|-------|-------|



MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

Emery Comstock

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 5 | 2 | 7 | 7 | 2 |
| 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Matthew Simkule

UB Person Number:

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
 - For full credit solve each problem fully, showing all relevant work.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | TOTAL | GRADE |
|---|---|---|---|---|---|---|-------|-------|
|---|---|---|---|---|---|---|-------|-------|

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|----|

**MTH 309T LINEAR ALGEBRA****EXAM 1**

October 3, 2019

Name:

David Flores

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 3 | 6 | 3 | 8 | 7 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Michael Mu

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 6 | 6 | 9 | 4 | 8 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
 - For full credit solve each problem fully, showing all relevant work.

| | | | | | | | | |
|---|---|---|---|---|---|---|-------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | TOTAL | GRADE |
|---|---|---|---|---|---|---|-------|-------|



MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

John Stone

UB Person Number:

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

Bella Esposito

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 2 | 4 | 3 | 9 | 8 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

Jessica Zuritis

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 1 | 7 | 9 | 9 | 7 | 6 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Pengfei Zhao

UB Person Number:

- ## Instructions:

1

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TOTAL

GRADE



MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Jon Yaeger

UB Person Number:

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
 - For full credit solve each problem fully, showing all relevant work.

| | | | | | | | | |
|---|---|---|---|---|---|---|-------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | TOTAL | GRADE |
|---|---|---|---|---|---|---|-------|-------|



MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

Dingchen Shen

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 1 | 7 | 1 | 3 | 6 |
| 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 0 | 1 | 0 | 1 | 1 |
| 2 | 2 | 0 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 0 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 0 |
| 7 | 7 | 7 | 7 | 0 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

Mingyang Liu

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 4 | 5 | 4 | 2 | 4 |
| 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

Kyle Williams

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 1 | 8 | 8 | 7 | 3 | 0 |
| 0 | ● | 0 | 0 | 0 | 0 | 0 | ● |
| 1 | 1 | ● | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | ● | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | ● | 7 | 7 |
| 8 | 8 | 8 | ● | ● | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|

**MTH 309T LINEAR ALGEBRA****EXAM 1**

October 3, 2019

Name:

John koszela

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 1 | 7 | 7 | 9 | 5 | 8 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

Daniel Kane

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 3 | 8 | 7 | 0 | 6 |
| 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



**MTH 309T LINEAR ALGEBRA
EXAM 1**

October 3, 2019

Name:

Westley Borree

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 9 | 0 | 3 | 5 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA
EXAM

October 3, 2019

Name:

Lyra Schmidt

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 1 | 0 | 2 | 1 | 0 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Gerra Gamaro

UB Person Number:

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
 - For full credit solve each problem fully, showing all relevant work.

| | | | | | | | | |
|---|---|---|---|---|---|---|-------|-------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | TOTAL | GRADE |
|---|---|---|---|---|---|---|-------|-------|



MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

Ricky Chen

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 3 | 1 | 1 | 6 | 8 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|

**MTH 309T LINEAR ALGEBRA****EXAM 1**

October 3, 2019

Name:

Charles Balkeh

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 7 | 0 | 3 | 8 | 8 |
| 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
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MTH 309T LINEAR ALGEBRA
EXAM 1
October 3, 2019

Name:

Saumya Pandey

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 0 | 0 | 2 | 3 | 4 | 0 | 0 | 8 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

DANIEL WALSH

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 4 | 4 | 7 | 5 | 2 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA
EXAM 1

October 3, 2019

Name:

Fuming Zhao

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 3 | 2 | 0 | 7 | 9 | 6 |
| 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|

**MTH 309T LINEAR ALGEBRA****EXAM 1**

October 3, 2019

Name:

Daniel Maas

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3 | 7 | 5 | 8 | 1 | 0 | 7 | 3 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Vladyslav Lukasewych

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 1 | 2 | 9 | 4 | 6 | 6 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



**MTH 309T LINEAR ALGEBRA
EXAM 1**

October 3, 2019

Name:

Alvin Tsang

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 5 | 6 | 5 | 4 | 8 |
| 0 | ● | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | ● | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | ● | 4 |
| 5 | 5 | 5 | ● | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | ● | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | ● |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | TOTAL | GRADE |
|---|---|---|---|---|---|---|-------|-------|
|---|---|---|---|---|---|---|-------|-------|

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



**MTH 309T LINEAR ALGEBRA
EXAM 1**

October 3, 2019

Name:

Shawn Mammen

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 1 | 9 | 0 | 2 | 2 | 7 |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
- For full credit solve each problem fully, showing all relevant work.

1 2 3 4 5 6 7 TOTAL GRADE

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|



MTH 309T LINEAR ALGEBRA

EXAM 1

October 3, 2019

Name:

Judy Mei

UB Person Number:

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | 0 | 2 | 3 | 7 | 0 | 3 | 2 |
| 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

Instructions:

- Textbooks, calculators and any other electronic devices are not permitted. You may use one sheet of notes.
 - For full credit solve each problem fully, showing all relevant work.

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | TOTAL | GRADE |
|---|---|---|---|---|---|---|-------|-------|
|---|---|---|---|---|---|---|-------|-------|