

DAILY ASSESSMENT FORMAT

Date:	10-07-2020	Name:	BINDUSHRI
Course:	coursera	USN:	4AL17EC011
Topic:	Mathematics for machine learning:linear algebra-weak1		6th A
Github Repository:	Bindushri		

FORENOON SESSION DETAILS

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Mathematics for Machine Learning: Linear Algebra > Week 1 > Exploring parameter spacePrevNext

2 min

✓ Reading: About Imperial College & the team
5 min

✓ Reading: How to be successful in this course
5 min

✓ Reading: Grading policy
5 min

✓ Reading: Additional readings & helpful references
10 min

✓ Discussion Prompt: Nice to meet you!
15 min

🕒 Complete our short pre-course survey
15 min

The relationship between machine learning, linear algebra, and vectors and matrices

Vectors

Summary

PRACTICE QUIZ • 20 MIN

Exploring parameter space

✓ Submit your assignment

Try again

✓ Receive grade

TO PASS 40% or higher

Grade

57.50%

We keep your highest score

View Feedback

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Congratulations! You passed!

TO PASS 80% or higher

Keep Learning

GRADE
80%

Solving some simultaneous equations

TOTAL POINTS 5

1. In this quiz you'll be reminded of how to solve linear simultaneous equations as a way to practice some basic linear algebra. Some of the ideas presented here will be relevant later in the course.

0 / 1 point

Solving simultaneous equations is the process of finding the values of the variables (here x and y) that satisfy the system of equations. Let's start with the simplest type of simultaneous equation, where we already know all but one of the variables:

$$3x - y = 2$$

$$x = 4$$

Substitute the value of x into the first equation to find y , then select the correct values of x and y below.

- ☐ $x = 4, y = -10$
- ☐ $x = 4, y = 2$
- ☒ $x = 4, y = 14$

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Mathematics for Machine Learning: Linear Algebra > Week 1 > Doing some vector operations

Prev | Next

2 min

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The relationship between machine learning, linear algebra, and vectors and matrices

Vectors

PRACTICE QUIZ • 30 MIN

Doing some vector operations



Submit your assignment

Try again



Receive grade

TO PASS 80% or higher

Grade
85.71%

View Feedback

We keep your highest score



10/07/2020

Week-1 - module-1

Mathematics for Machine Learning & Linear Algebra

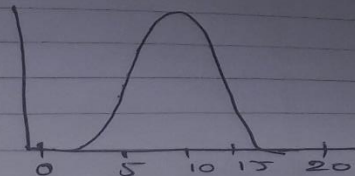
→ Solving data science challenges with Mathematics

Notations for Linear algebra.

$$2a + 3b = 8$$

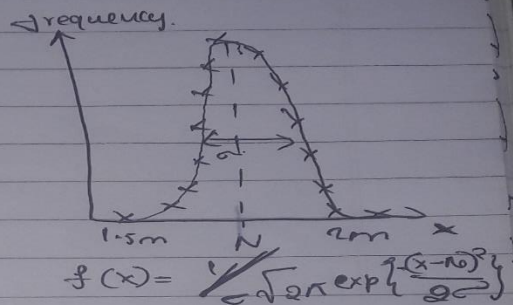
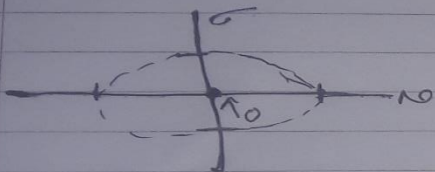
$$10a + 16b = 13$$

$$\begin{pmatrix} 2 & 3 \\ 10 & 16 \end{pmatrix} \begin{bmatrix} a \\ b \end{bmatrix} = \begin{bmatrix} 8 \\ 13 \end{bmatrix}$$



Getting handle on vector.

→ Linear algebra.



$$\rightarrow 3x - y = 2$$

$$x = 4$$

$$3 \times 4 - y = 2$$

$$12 - y = 2$$

$$12 - 2 = y$$

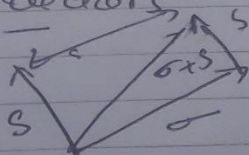
$$\underline{10}$$

$$3x - 2y = 7$$

$$2x - 2y = 2$$

$$\begin{bmatrix} 3 & -2 \\ 2 & -2 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 7 \\ 2 \end{bmatrix}$$

operation with vectors



$$2r = \begin{bmatrix} 2 \times 3 \\ 2 \times 2 \end{bmatrix} = \begin{bmatrix} 6 \\ 4 \end{bmatrix} \text{ or } \begin{bmatrix} 3 \\ 2 \end{bmatrix} = r$$

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