

<u>Help</u> 🗘

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★ Course / Week 1: Vectors in Linear Alg... / 1.5 LAFF Software Package Development: V...

()

1.5.5 An Inner Product Routine (dot)

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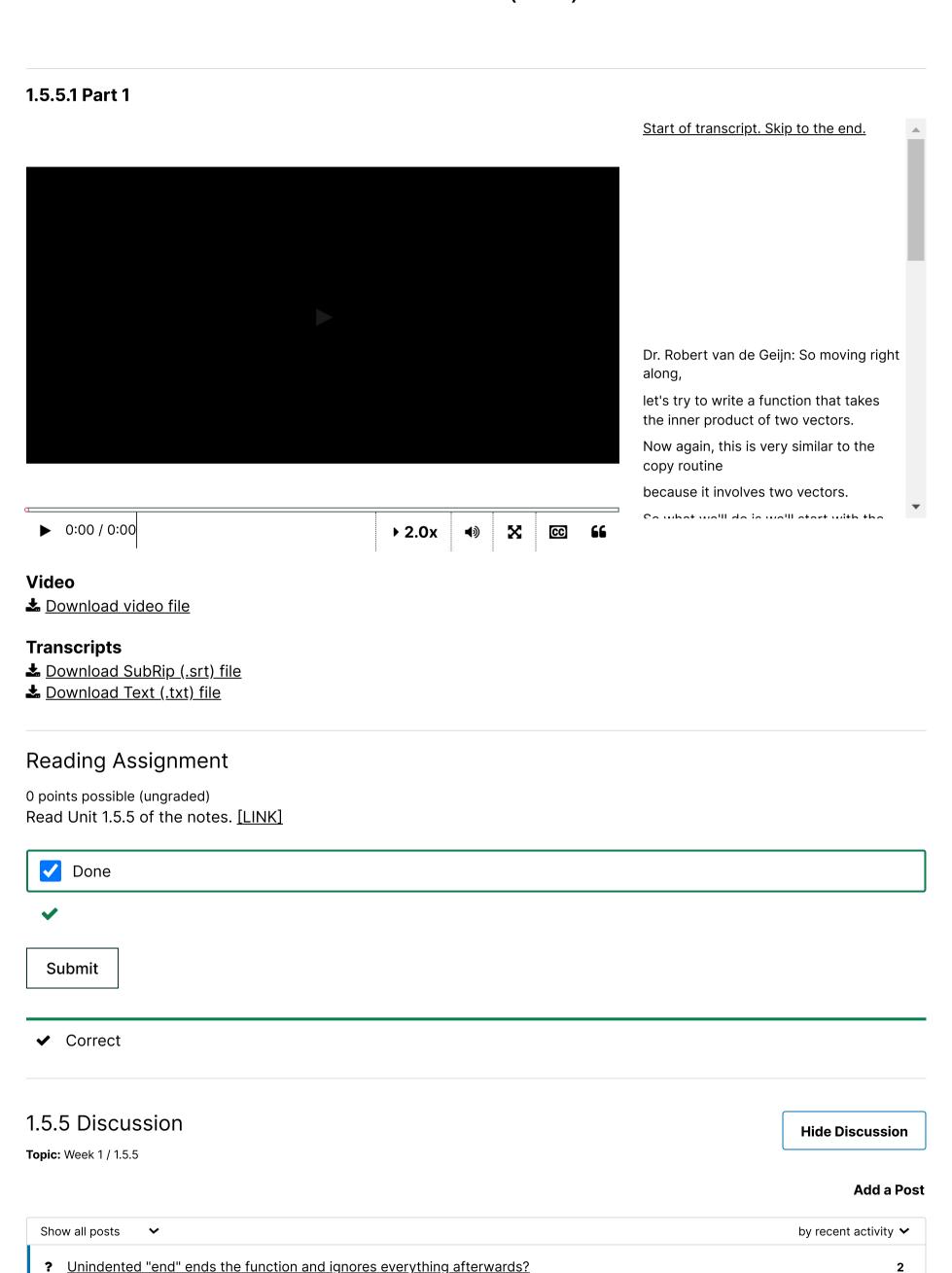
■ Calculator

Week 1 due Oct 5, 2023 03:12 IST

? code

is the test case and codes are available for every routines

# 1.5.5 An Inner Product Routine (dot)



2

**⊞** Calculator

? Indexing
 For this question, I first verify whether the row or column vectors are valid. However, after finding the vector length (any value ~= 1) of one of th...

 ? Programming
 Hi! Could you please explain why in the code should be write alpha = alpha + x(i,1) \* y(i,1); In my understanding of what a simple dot product is...

#### Homework 1.5.5.1

1/1 point (graded)

Implement the function laff\_dot that computes the dot product of vectors x and y. The function is defined as

function [ alpha ] = laff\_dot( x, y )

where

- x and y must each be either an  $n \times 1$  array (column vector) or a  $1 \times n$  array (row vector);
- If x and/or y are not vectors or if the size of (row or column) vector x does not match the size of (row or column) vector y, the output should be 'falled'.

Check your implementation with the script in LAFF-2.0xM/Programming/Week01/test\_dot.m.



**~** 

See the video below and the routine in the file LAFF-2.0xM/Programming/laff/vecvec/laff\_dot.m .

Here is a solution: <u>laff\_dot.m</u>.

**Submit** 

**1** Answers are displayed within the problem

#### 1.5.5.1 Part 2 (Answer)



Start of transcript. Skip to the end.

Robert van de Geijn: OK, so we're back. And let's see what we need to do.

Well, we are already checking whether x and y are row and/or column vectors,

so let's leave that alone.

But we do need to check that alpha is actually scalar.

**o**:00 / 0:00

▶ 2.0x

) X

CC

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#### Video

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