

<u>Help</u>

sandipan_dey 🗸

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☆ Course / Week 11: Orthogonal Projection, Low Rank Approximation,... / 11.3 Orthonorm...

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11.3.1 The Unit Basis Vectors, Again

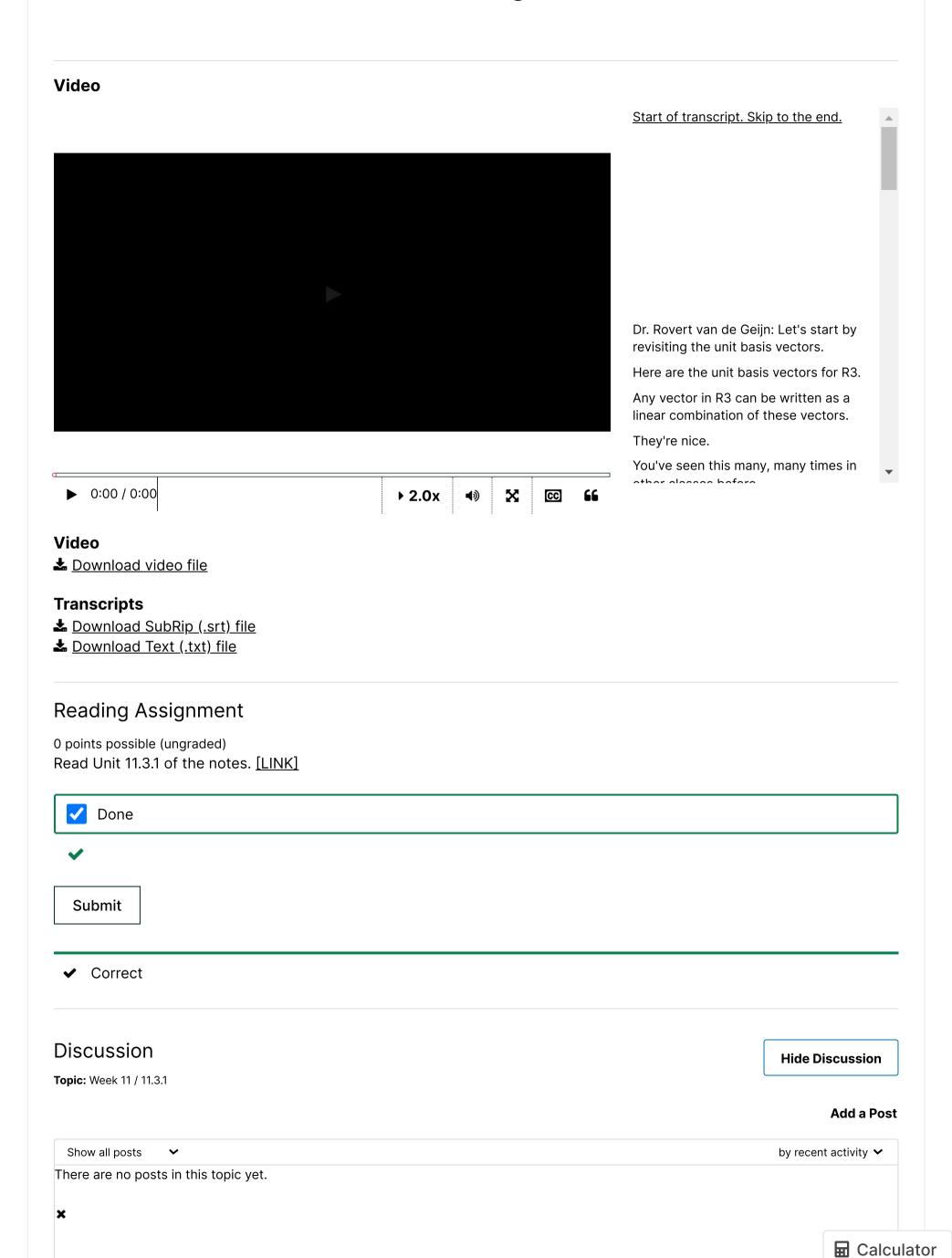
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■ Calculator

Week 11 due Dec 22, 2023 21:12 IST Completed

11.3.1 The Unit Basis Vectors, Again



Homework 11.3.1.1

7/7 points (graded) Consider the vectors

$$v_0=egin{pmatrix}1\0\0\end{pmatrix},\quad v_1=egin{pmatrix}1\1\0\end{pmatrix}\quad ext{and}\quad v_2=egin{pmatrix}1\1\1\end{pmatrix}$$

1. Compute

$$v_0^T v_2 =$$
 1 $ightharpoonup$ Answer: 1

$$oldsymbol{v_1^T v_2} = oldsymbol{2}$$
 Answer: 2

$$v_0^T v_0 =$$
 1 \checkmark Answer: 1

$$v_1^T v_1 =$$
 2 Answer: 2

$$v_2^T v_2 = \boxed{3}$$
 \checkmark Answer: 3

2. These vectors are orthonormal.

FALSE ✓ ✓ Answer: FALSE

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