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☆ Course / Week 1: Vectors in Linear Algebra / 1.2 What is a Vector

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1.2.1 Notation

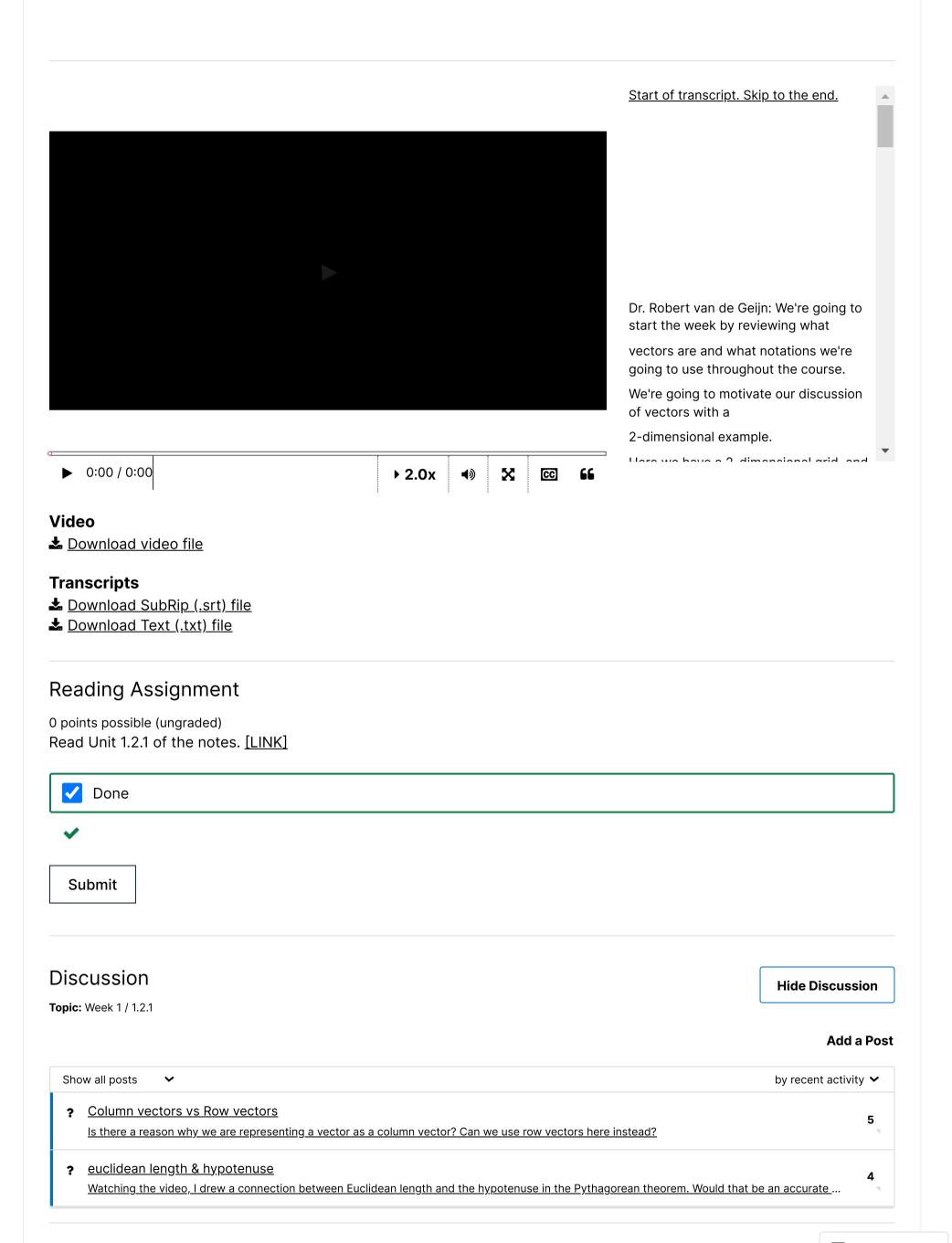
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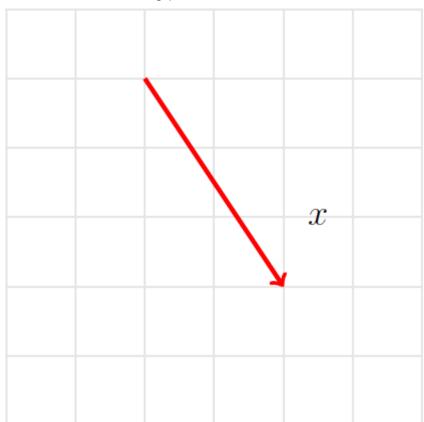
Week 1 due Oct 5, 2023 03:12 IST Completed

1.2.1 Notation



1/1 point (graded)

Consider the following picture.



Using the grid for units,

$$egin{array}{c} igcap & x=igg(-2\ -3igg) \end{array}$$

$$egin{array}{c} x=\left(egin{array}{c} 3 \ -2 \end{array}
ight)$$

$$x=\left(egin{array}{c} 2 \ -3 \end{array}
ight)$$

$$egin{array}{c} x=igg(-3\-2igg) \end{array}$$

None of the above

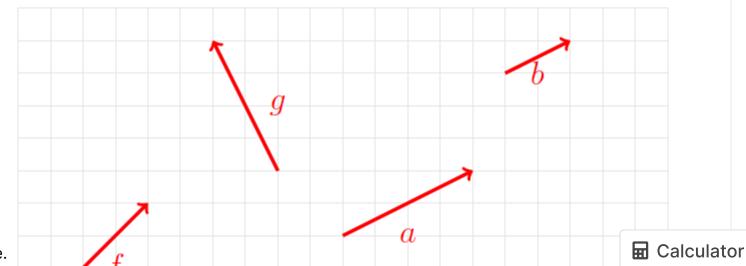


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• Answers are displayed within the problem

Homework 1.2.1.2

7/7 points (graded)



Consider the following picture.



Using the grid for units, identify the letter associated with the given vector:

$$\binom{2}{1} =$$

b ✓ Answer: b

 $\begin{pmatrix} -2 \\ -1 \end{pmatrix} =$

c

Answer: c

 $\begin{pmatrix} -2 \\ 4 \end{pmatrix} =$

g ✓ Answer: g

 $\binom{8}{4} =$

d ✓ Answer: d

 $\binom{1}{2} =$

e 🗸 Answer: e

 $\binom{4}{2} =$

a 🗸 🗸 Answer: a

 $\binom{2}{2} =$

f

Answer: f

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1 Answers are displayed within the problem

While a vector does not have location, but has direction and length, vectors are often used to show the direction and length of movement from one location to another. For example, the vector from point (1, -2) to point (5, 1) is the vector

\3/

Hence, we might geometrically represent the vector	$\binom{4}{3}$	by an arrow from point $(1,-2)$ to point $(5,1)$.
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Homework 1.2.1.3

10/10 points (graded)

The vector represented geometrically in \mathbb{R}^2 by

an arrow from point (-1, 2) to point (0, 0) can be written as $m{x}=$

✓ Answer: 1

-2

✓ Answer: -2

an arrow from point (0, 0) to point (-1, 2) can be written as $oldsymbol{x}=$

-1

✓ Answer: -1

2

✓ Answer: 2

The vector represented geometrically in \mathbb{R}^3 by

an arrow from point (-1, 2, 4) to point (0, 0, 1) can be written as $\boldsymbol{x}=$

1

✓ Answer: 1

-2

✓ Answer: -2

-3

✓ Answer: -3

an arrow from point (1, 0, 0) to point (4, 2, -1) can be written as $m{x}=$

3

✓ Answer: 3

2

✓ Answer: 2

-1

✓ Answer: -1

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