

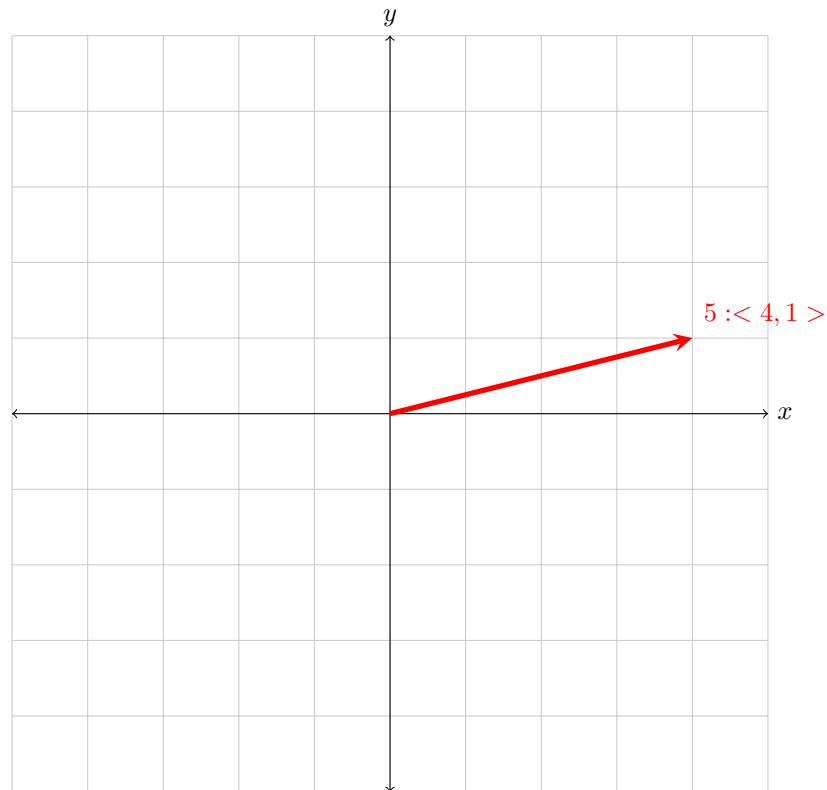
Calculus III Homework 3 Question 2

November 23, 2021

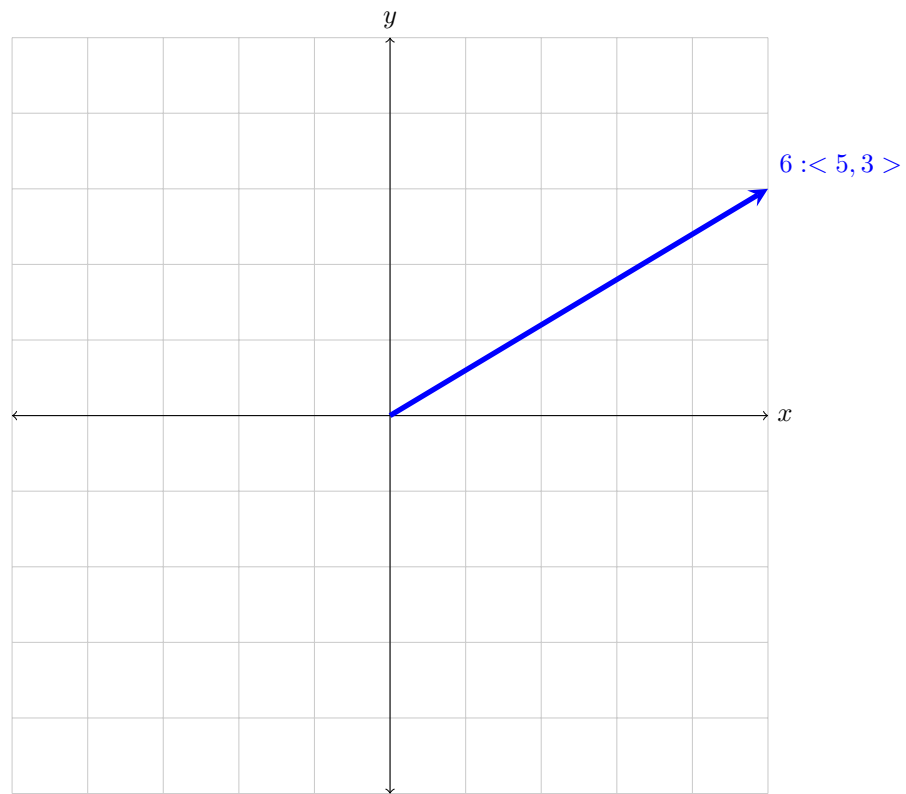
Find a vector \mathbf{a} with representation given by the directed line segment \overrightarrow{AB} .

Draw \overrightarrow{AB}

5 : $A(-1, 1), B(3, 2) : \overrightarrow{AB} = \langle 3 - (-1), 2 - 1 \rangle = \langle 4, 1 \rangle$



6 : $A(-4, -1), B(1, 2) : \overrightarrow{AB} = \langle 1 - (-4), 2 - (-1) \rangle = \langle 5, 3 \rangle$



7 : $A(0, 3, 1), B(2, 3, -1) : AB = \langle 2 - 0, 3 - 3, (-1) - 1 \rangle = \langle 2, 0, -2 \rangle$
 8 : $A(4, 0, -2), B(4, 2, 1) : AB = \langle 4 - 4, 2 - 0, 1 - (-2) \rangle = \langle 0, 2, 3 \rangle$