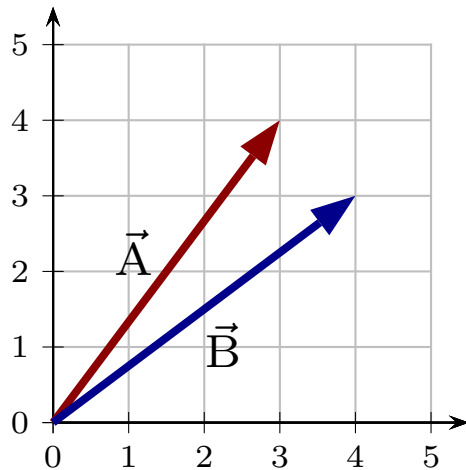


# Question 1

Consider the two vectors  $\vec{A}$  and  $\vec{B}$  as illustrated.



Which of the following is true?

1. The vectors have different magnitudes and are thus different.
2. The magnitudes are both 5 but the vectors are *not equal*.
3. The magnitudes are both 7 but the vectors are *not equal*.
4. The magnitudes are both 5 and the vectors are *equal*.
5. The magnitudes are both 7 and the vectors are *equal*.