# Practice Quiz Vectors WO Sol.

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Citation: All questions, unless otherwise stated, are from

Barron's AP Physics 1

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Disclaimer: I do not know the content of in-class evaluations. This quiz is only intended as a review and might not reflect the style or content of given quizzes.

## Question 1

A vector is given by its components $A_x = 2.5$ and $A_y = 7.5$. What angle does vector $\vec{A}$ make with the positive x-axis?

## Question 2

Vector $\vec{A}$ has a magnitude of 10 units and makes an angle of 30° with the horizontal x-axis. Vector B has a magnitude of 25 units and makes an angle of 50° with the negative x-axis. What is the magnitude of the resultant

of these two vectors?

## Question 3

As the angle between a given vector and the horizontal axis increases from 0° to 90°, the magnitude of the vertical component of this vector

a. decreases

b. increases then decreases

c. decreases then increases

d. increases.

## Question 4

Which of the following sets of displacements have equal resultants when performed in the order given?

I. 6 m east, 9 m north, 12 m west
II. 6 m north, 9 m west, 12 m east
III. 6 m east, 12 m west, 9 m north
IV. 9 m north, 6 m east, 12 m west.

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