Quiz 11

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Question 1 *What is the horizontal component of the vector $\langle 4, 7 \rangle$?*

A 4.

B 7.

C $\sqrt{65}$.

D 0.

Question 2 *What is the magnitude of the vector $\langle -3, -4 \rangle$?*

A 5.

B 7.

C -7.

D 1.

Question 3 *What vector has magnitude 2 and makes an angle of $\pi/4$ with the positive x-axis?*

A $\langle \sqrt{2}, \sqrt{2} \rangle$.

B $\langle \frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2} \rangle$.

C $\langle \frac{1}{2}, \frac{\sqrt{3}}{2} \rangle$.

D $\langle 1, \sqrt{3} \rangle$.

Question 4 *What is the value of $\langle 1, 2 \rangle \cdot \langle 1, 1 \rangle$?*

A 3.

B 0.

C −3.

D $\sqrt{5} + \sqrt{2}$.