

# Unit 03: Kinematics in Two Dimensions

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## 1. Unit 03: Kinematics in Two Dimensions

## 4. Chapter: Unit 03: Kinematics in Two Dimensions

### 1. Unit 03: Kinematics in Two Dimensions Questions

#### 4.1.1. A projectile is fired horizontally with a speed of 2 m/s from the t...

Author: Saylor Foundation

A projectile is fired horizontally with a speed of 2 m/s from the top of a 10 m vertical cliff. Which of the following is true?

Please choose only one answer:

- The projectile will hit the ground 1.43 s later at a distance of 2.86 m.
- The projectile will hit the ground 1.63 s later at a distance of 2.86 m.
- The projectile will hit the ground 1.43 s later at a distance of 2.36 m.
- The projectile will hit the ground 1.63 s later at a distance of 2.36 m.

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#### 4.1.2. What are the components of a vector of magnitude 2.5 m at an angle ...

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What are the components of a vector of magnitude 2.5 m at an angle of  $120^\circ$  with respect to the positive x axis?

Please choose only one answer:

- (1.25, -2.16)
- (-2.16, 1.25)
- (-1.25, -2.16)
- (-1.25, 2.16)

Check the answer of this question online at QuizOver.com:

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#### 4.1.3. What is the sum of the two vectors +3 m in the x direction and -4 m...

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What is the sum of the two vectors +3 m in the x direction and -4 m in the y direction?

Please choose only one answer:

- 5 m at an angle of  $53^\circ$  above the x axis
- 5 m at an angle of  $37^\circ$  above the x axis
- 5 m at an angle of  $53^\circ$  below the x axis
- 5 m at an angle of  $37^\circ$  below the x axis

Check the answer of this question online at QuizOver.com:

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