

# Unit 02: Fluid Dynamics and Kinematics

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## 1. Unit 02: Fluid Dynamics and Kinematics

## 4. Chapter: Unit 02: Fluid Dynamics and Kinematics

### 1. Unit 02: Fluid Dynamics and Kinematics Questions

#### 4.1.1. Which of the following are required in order to use Bernoulli's equ...

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Which of the following are required in order to use Bernoulli's equation? I. Steady flow II. Flow along a streamline III. Inviscid flow IV. Incompressible flow

Please choose only one answer:

- I, II, III, and IV
- I and II only
- I, II, and III only
- II and III only
- III and IV only

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

Question: [Which of the following are required in Stephanie Redfern Saylor Fluid](#)

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#### 4.1.2. Which of the following statements accurately describes Eulerian and...

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Which of the following statements accurately describes Eulerian and Lagrangian mechanics or reference frames?

Please choose only one answer:

- A neutrally buoyant weather balloon makes pressure measurements in an Eulerian reference frame.
- An anemometer at the top of Mount Washington makes wind velocity measurements in an Eulerian reference frame.
- The fixed laboratory reference frame is a Lagrangian reference frame.
- Neither Lagrangian nor Eulerian viewpoints can be exactly correct.

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Question: [Which of the following statements accurately Stephanie Saylor Fluid](#)

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#### 4.1.3. For ideal (no frictional losses) flow of an incompressible fluid th...

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For ideal (no frictional losses) flow of an incompressible fluid through a sudden expansion, which of the following best describes how the Bernoulli equation predicts that the pressure will change?

Please choose only one answer:

- The pressure will be lower after the expansion than before.
- The pressure will be the same before and after the expansion.
- The pressure will be larger after the expansion than before.
- The flow will stagnate after the expansion.

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

Question: [For ideal no frictional losses flow of an Stephanie @The Saylor Fluid](#)

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#### 4.1.4. How high can a 5 hP pump move 5 gal/min of water in Earth's gravity...

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How high can a 5 hP pump move 5 gal/min of water in Earth's gravity if there are no frictional losses?

Please choose only one answer:

- 1.2 m
- 12 m
- 120 m
- 1200 m

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

Question: [How high can a 5 hP pump move 5 gal/min Stephanie Redfern @The Fluid](#)

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#### 4.1.5. Which of the following expresses Reynolds' transport theorem?

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Which of the following expresses Reynolds' transport theorem?

Please choose only one answer:

- The volume integral of the derivative of a scalar or vector field over a time-dependent volume is equal to the volume integral of the velocity of the field plus the surface integral of the product of the outward boundary speed and the field.
- The derivative of the volume integral of a scalar or vector field over a time-dependent volume is equal to the volume integral of the derivative of the field plus the surface integral of the product of the outward boundary speed and the field.
- The derivative of the volume integral of a scalar or vector field over a time-dependent volume is equal to the volume integral of the derivative of the divergence of the field plus the surface integral of the product of the outward boundary speed and the field.
- The derivative of the volume integral of a scalar or vector field over a time-dependent volume is equal to the volume integral of the derivative of the field plus the volume integral of the product of the outward boundary speed and the field.

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Question: [Which of the following expresses Reynolds Stephanie Saylor Foundat](#)

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