

Quiz #10

The following three questions refer to the block on the right, which is sliding down an incline and speeding up even though it feels a frictional force.

1. The block's kinetic energy KE is

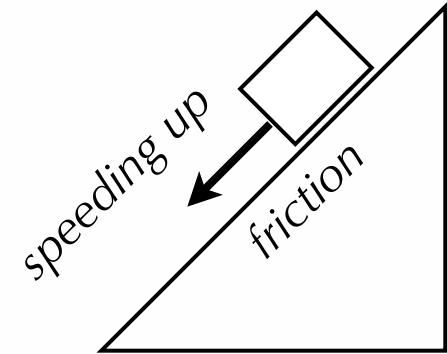
- A) increasing** **B) constant** **C) decreasing**
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2. The block's gravitational potential energy PE is

- A) increasing** **B) constant** **C) decreasing**
-

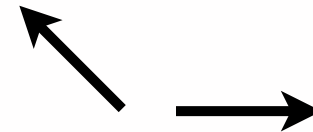
3. The block's total energy ($PE+KE$) is

- A) increasing** **B) constant** **C) decreasing**



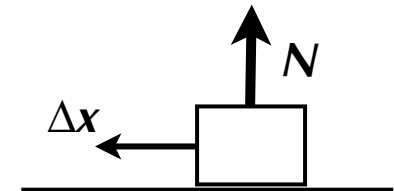
4. The dot product between these two vectors is

- A) positive** **B) zero** **C) negative**



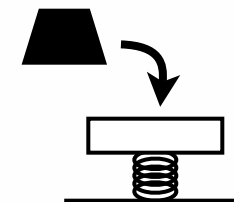
5. A block is sliding along a table to the left. The work done by the normal force of the table on the block is

- A) positive** **B) zero** **C) negative**



6. If I place a mass on this platform, the platform will sink, and the potential energy in the spring will

- A) increase** **B) stay constant** **C) decrease**



Quiz #10

ACCCBA

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1. The block's kinetic energy KE is

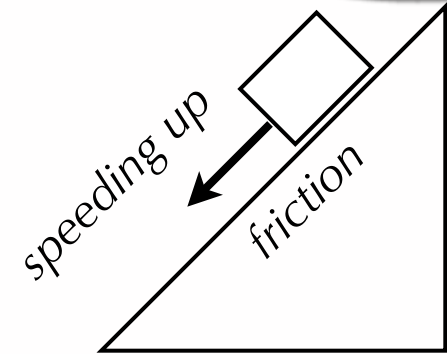
- A) increasing** B) constant C) decreasing

2. The block's gravitational potential energy PE is

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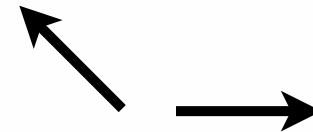
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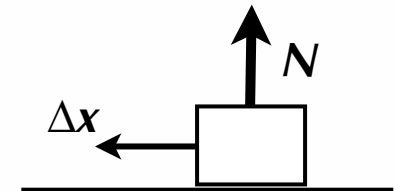
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5. A block is sliding along a table to the left. The work done by the normal force of the table on the block is

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6. If I place a mass on this platform, the platform will sink, and the potential energy in the spring will

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