SOUTH DAKOTA PHYSICS · UNIT 2 · 5 QUESTIONS

Work, Energy, and Momentum — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A force of 25 N pushes an object 4 m in the direction of the force. The work done is**

- A 100 J
- B 6.25 J
- C 29 J
- D 21 J

Understand It with Pulse | Flag a mistake

2 **A 3 kg object moves at 6 m/s. Its kinetic energy is**

- **A** 18 J
- **B** 9 J
- **C** 108 J
- **D** 54 J

Understand It with Pulse | Flag a mistake

3 **Use g = 10 $\frac{m}{s^2}$. A 4 kg object is 5 m above the ground. Its gravitational potential energy is**

- **A** 20 J
- **B** 45 J
- **C** 200 J
- **D** 9 J

Understand It with Pulse | Flag a mistake

4 **A shiny metal coil spring stretches out horizontally on a light wooden table. A spring with spring constant 200 N/m is stretched 0.1 m. Its elastic potential energy is**



A 20 J

B 2 J

C 1 J

D 10 J

Understand It with Pulse | Flag a mistake

5 **A machine does 450 J of work in 15 s. Its power, in watts, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. A
2. D
3. C
4. C
5. 30

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