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2021-10-10

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$3 \times 6.9 \times 10^3 \text{ J}$  4 Both do the same amount of work. Practice Problems p 202 5  $88 \text{ J}$  6a  $903 \text{ J}$  b- $903 \text{ J}$  7  $6.54 \times 10^3 \text{ J}$  8a  $340 \text{ J}$  b- $279 \text{ J}$  c- $1.3 \times 10^2 \text{ J}$  Practice Problems p 203Chapter 10 Work, Energy, and Simple Machines Section 10.1 ...Slide 10-9 Reading Question 10.1 If a system is isolated, the total energy of the system A. Increases constantly. B. Decreases constantly. C. Is constant. D. Depends on the work into the system.Lecture Presentation - GSU P&AConcepts of work, kinetic energy and potential energy are discussed; these concepts are combined with the work-energy theorem to provide a convenient means of analyzing an object or system of objects moving between an initial and final state.Work, Energy, and Power9. Work Done By a variable Force 10. Positive vs Negative Work Done By a Force 11. Work and Change in Kinetic Energy 12. Work Done on Satellite Around Earth 13. Work Done By Gravity, Net Force ...Kinetic Energy, Gravitational & Elastic Potential Energy, Work, Power, Physics - Basic IntroductionWork and Energy 1. How much work (energy) is needed to lift an object that weighs 200 N to a height of 4 m? 2. How much power is needed to lift

the 200-N object to a height of 4 m in 4 s? 3. What is the power output of an engine that does 60,000 J of work in 10 s? 4. The block of ice weighs 500 newtons. a. What is the mechanical advantage of ...Concept-Development 9-1 Practice Page(4.5 kg/A s<sup>2</sup>)(1.60 10<sup>19</sup> A s) (2.4 10<sup>5</sup> m/s) Force will be measured in kgm/s<sup>2</sup>, which is correct. b. The values are written in scientific notation, m 10<sup>n</sup>. Calculate the 10<sup>n</sup> part of the equation to estimate the size of the answer. 10<sup>19</sup> 10<sup>5</sup> 10<sup>14</sup>; the answer will be about 20 10<sup>14</sup>, or 2 10<sup>13</sup>. c. Calculate your answer. Check it against your ...Solutions Manual - 3Imksa.comChapter 3, page 4 Slide 10 Enthalpy • In a constant volume change, no other work done,  $\Delta E = q$ , which is  $q v$ . • In a constant pressure change, some work of expansion or contraction will be done. •  $\Delta E = q p -P\Delta V$ , or  $q$

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Reading: pages 289 - 315 (skip section 10.7) Outline:  $\Rightarrow$  work done by a constant force ...

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Concepts of work, kinetic energy and potential energy are discussed; these concepts are combined with the work-energy theorem to provide a convenient means of analyzing an object or system of objects moving between an initial and final state.

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10 Energy, Work, and Simple Machines CHAPTER Practice Problems 10.1 Energy and Work pages 257–265 page 261 1.

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(4.5 kg/A s<sup>2</sup>)(1.60 10<sup>19</sup> A s) (2.4 10<sup>5</sup> m/s)

Force will be measured in kgm/s<sup>2</sup>, which is correct. b. The values are written in

scientific notation,  $m \cdot 10^n$ . Calculate the  $10^n$  part of the equation to estimate the size of the answer.  $10^{19} \cdot 10^5 \cdot 10^{14}$ ; the answer will be about  $20 \cdot 10^{14}$ , or  $2 \cdot 10^{15}$ .

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system is isolated, the total energy of the

system A. Increases constantly. B.  
Decreases constantly. C. Is constant. D.  
Depends on the work into the system.