

Name _____
 Regents Physics
 Period _____

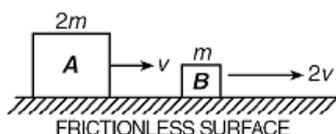
A

Energy

Date _____
 Energy WS #3R
 Mrs. Nadworny

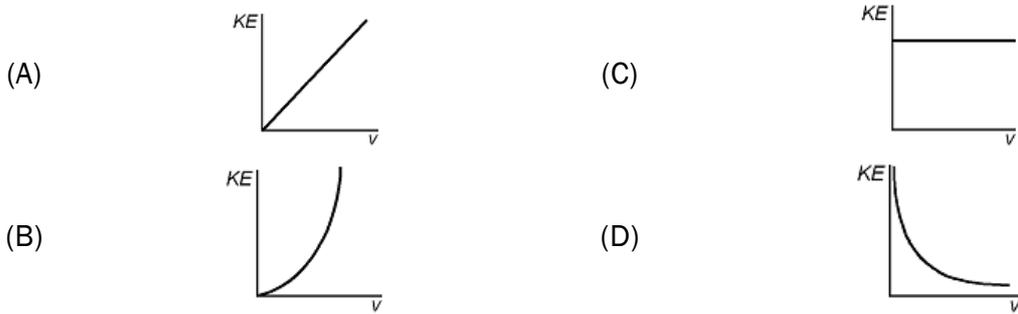
Directions: Read online textbook pages 172 – 179. Solve the following problems using the GUESS method and proper significant figures. Be sure to show ALL work.

- As the speed of a bicycle moving along a level horizontal surface changes from 2 meters per second to 4 meters per second, the magnitude of the bicycle's gravitational potential energy
 (A) decreases (B) increases (C) remains the same
- If the speed of a car is doubled, the kinetic energy of the car is
 (A) quartered (B) quadrupled (C) doubled (D) halved
- The diagram below shows block A, having mass $2m$ and speed v , and block B, having mass m and speed $2v$.

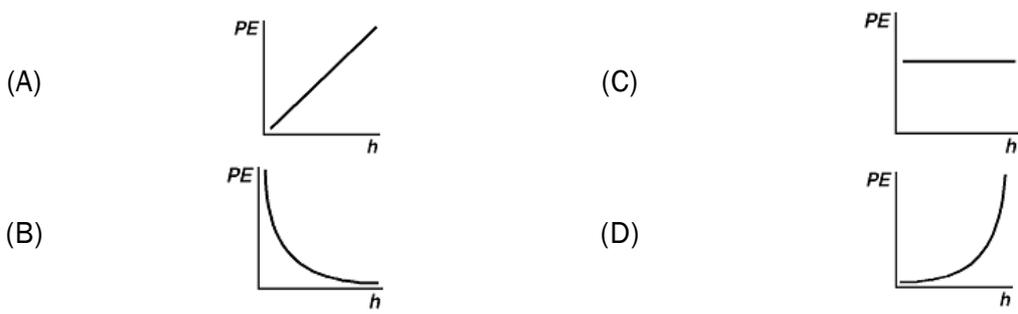


Compared to the kinetic energy of block A, the kinetic energy of block B is

- (A) four times as great (B) the same (C) one-half as great (D) twice as great
- Which graph best represents the kinetic energy of an object as a function of its speed?



- Which graph best represents the gravitational potential energy of an object as a function of its height?



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