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first two letters of last name

Physics 7B - Winter 07 - Quiz 4

Name _____

Student ID _____

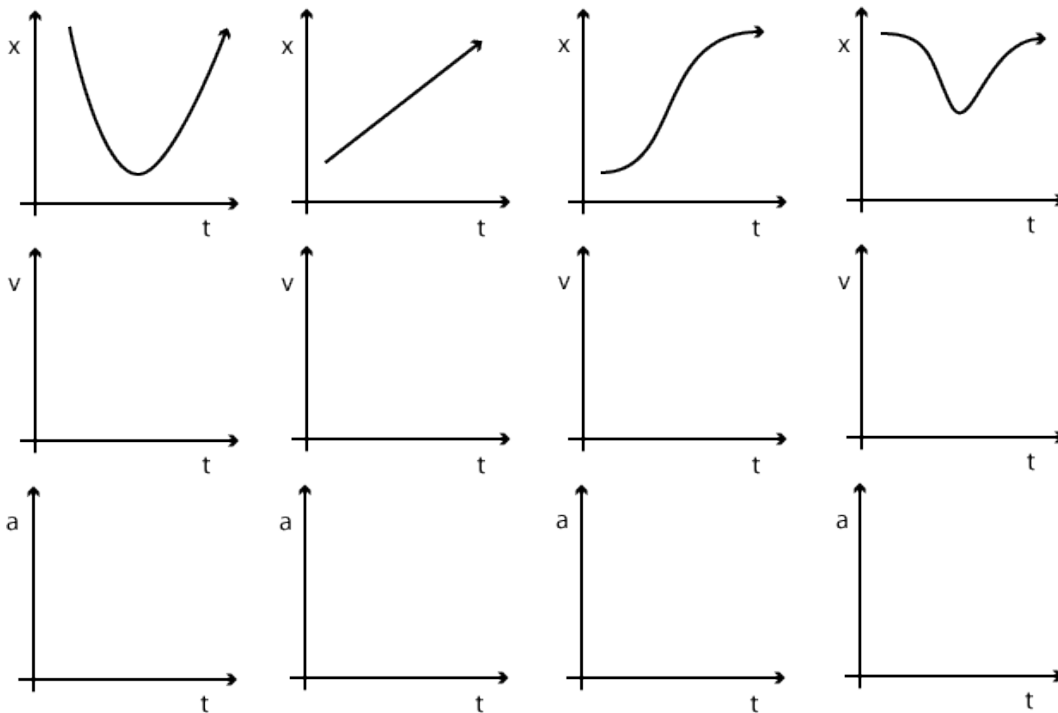
DL section number _____

I certify by my signature that I will abide by the code of academic conduct of the University of California

Signature _____

No books or notes. Calculators OK. Show all of your work below - answers alone do not receive credit!

1. (2.0 pts) For each of the position versus time graphs, sketch as accurately as you can the velocity and acceleration versus time in the empty graphs below. (Don't forget to indicate the value of zero on the vertical axis.)



2. (1.5 pts) A box with mass 20 kg rests on the floor of an elevator. a) If the force of the box on the floor is 180 N, what is the state of motion of the elevator? b) If the elevator comes to rest, what is the force of the floor on the box? (For both of these questions, use + to indicate the upward direction, and - to indicate the downward direction.)