

Section 1

Quiz 2-1

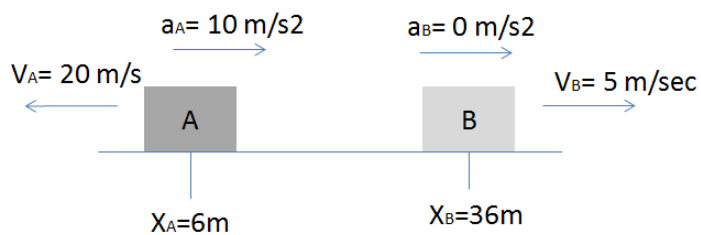
Closed book. No calculators are to be used for this quiz.

Quiz duration: 10 minutes

Name:

Student ID:

Signature:



As shown in figure 1, two cars **A** and **B** move along the x -axis. **A** is travelling with a constant acceleration 10 m/sec^2 and its initial velocity is 20 m/sec . The second car **B** is travelling with a constant speed of 5 m/sec . Pls note that their initial positions are also different.

- 1- At what time(s) do **A** and **B** have the same position?
- 2- Plot a graph of position (X) versus time (t) for each car.

PHYS 101: General Physics 1

College of Arts and Sciences

Section 2

Quiz 2-2

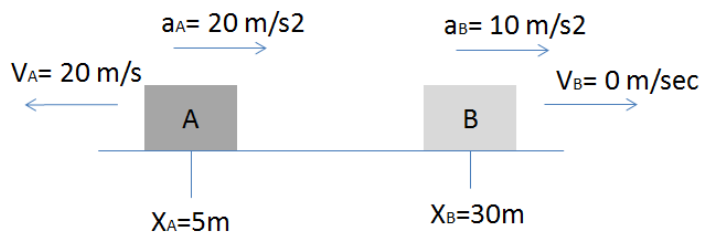
Closed book. No calculators are to be used for this quiz.

Quiz duration: 10 minutes

Name:

Student ID:

Signature:



As shown in figure1, two cars **A** and **B** move along the x –axis. **A** is travelling with a constant acceleration 20 m/sec^2 and its initial velocity is 20 m/sec . The second car **B** is travelling with a constant acceleration of 10 m/sec^2 . Pls note that their initial positions are also different.

- 1- At what time(s) do **A** and **B** have the same position?
- 2- Plot a graph of position (X) versus time (t) for each car.

Section 3

Quiz 2-3

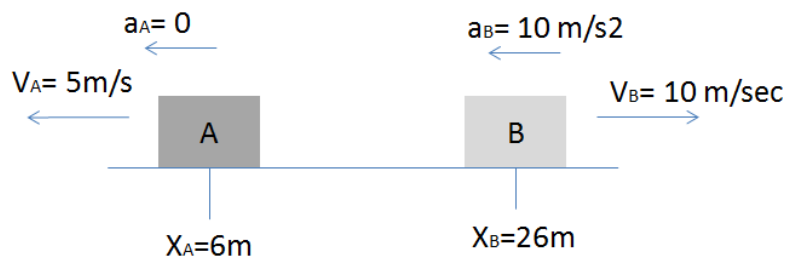
Closed book. No calculators are to be used for this quiz.

Quiz duration: 10 minutes

Name:

Student ID:

Signature:



As shown in figure1, two cars **A** and **B** move along the x –axis. **A** is travelling with a constant velocity of 5 m/sec. The second car **B** is travelling with a constant acceleration of 10 m/sec² and its initial velocity is 10 m/sec. Pls note that their initial positions are also different.

- 1- At what time(s) do **A** and **B** have the same position?
- 2- Plot a graph of position (X) versus time (t) for each car.