motionSimpleArithmetic - Form 1

1. (1 pts)
An object is moving at an initial velocity of 1 m/s, and also accelerating uniformly in such a way that it reaches a velocity of 3 m/s after 6 seconds have elapsed. How many meters has it travelled?

_ Answer: _____

2. (1 pts)
An object starts from rest and accelerates to 2 m/s in 3 seconds. How far did it travel?

Answer: _____

3. (1 pts)
An object starts from rest and accelerates uniformly from 0 to 4 m/s in 2 seconds, and then immediately takes and additional 3 seconds to uniformly decelerate back to rest. How many meters did it travel?

Answer: _____

4. (1 pts)
Mr. Smith starts from rest and accelerates uniformly from 0 to 2 m/s in 2 seconds. It then continues at this speed for 3 seconds, after which it decelerates uniformly back to rest, taking 1 seconds. How many meters did he travel?

Answer: _____

5. (1 pts)
An object is moving at an initial velocity of 4 m/s decelerates uniformly a velocity of 1 m/s in 4 seconds have elapsed. How many meters did it travel in this time?

Answer: _____

Key - Form 1

1. 12
2. 3
3. 10
4. 9
5. 10