

Section 2: Acceleration

Directions: Answer the following questions.

1. What three ways can acceleration occur?

2. What causes a positive acceleration?

3. What causes a negative acceleration?

6. Decided if it is speed (S) or acceleration (A)

_____ 34 m/s

_____ 12 m/s²

_____ 26 m/s²

_____ 10 m/s²

_____ 3 m/s

_____ 5 m/s

7. What is the formula for acceleration?

8. What kind of line on a speed-time graph will an object have if it is speeding up?

9. What kind of line on a speed-time graph will an object have if it is slowing down?

10. What kind of line on a speed-time graph will an object have if it is standing still?

Directions: Solve for acceleration.

11. If Kate is traveling at 6 m/s and speeds up to 12 m/s in 3 seconds. What is Kate's acceleration?

12. John is driving at 35 mph and speeds up to 45 mph in one hour. What is John's acceleration?

13. If an object is at rest and starts to move at 8 m/s in 2 seconds What is the objects acceleration?

14. If an object is moving at 8m/s and slows down to a stop in 2 seconds. What is the objects acceleration?