**Velocity versus Time Graphs**



The gradient of a velocity versus time graph gives the

acceleration of the object.

Gradient = Acceleration

1. Which line has the higher acceleration?

2. Are these objects accelerating or decelerating?



3. Calculate the acceleration of this graph.

Acceleration = gradient

= rise/run

=



4. Describe the motion of the object from t = 0 s

to t = 2 s.

5. Describe the motion of the object from t = 2 to

t = 4 s.

6. Calculate the acceleration of the object from t =

2 to t = 4 s.

The area under a velocity versus time graph is the TOTAL DISPLACEMENT

7. Calculate the total displacement of this object.

Area under graph =



8. Calculate the total displacement of this object.

Area under graph =