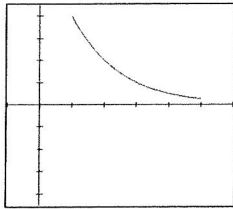


Situation 4: Velocity graph



time	velocity	speed
1	16	
2	8	
3	4	
4	2	
5	1	

In this situation, the velocity is _____ and _____.
 Positive or negative? Increasing or decreasing?

Because velocity is _____, we know acceleration is _____.
 Increasing or decreasing? Positive or negative?

By examining the graph of speed and the table of values, we can conclude that speed is _____.
 Increasing or decreasing?

Conclusion:

In which situations was the speed increasing? _____

When the speed is increasing, the velocity and acceleration have _____ signs.
 Same or opposite?

In which situations was the speed decreasing? _____

When the speed is decreasing, the velocity and acceleration have _____ signs.
 Same or opposite?

Dixie Ross, Pflugerville High School, Pflugerville, Texas

Assessing Students' Understanding (A Short Quiz):

1. If velocity is negative and acceleration is positive, then speed is _____.
2. If velocity is positive and speed is decreasing, then acceleration is _____.
3. If velocity is positive and decreasing, then speed is _____.
4. If speed is increasing and acceleration is negative, then velocity is _____.
5. If velocity is negative and increasing, then speed is _____.
6. If the particle is moving to the left and speed is decreasing, then acceleration is _____.

Dixie Ross, Pflugerville High School, Pflugerville, Texas