

1. What is the particle's velocity at time $t=4$ ?
2. Is the acceleration of the particle at time $t=4$ positive or negative?
3. What is the particle's position at time $t=4$ ?
4. What does the particle pass through the origin?
5. Approximately when is the acceleration zero?

## Answers

1. $0 \mathrm{~m} / \mathrm{s}$
2. positive
3. -12 meters
4. 8 sec
5. 10 sec
