

### AB CalcLog 3.4

A particle moves along the x-axis with velocity as shown in the graph. Its position at  $t = 0$  is 5.

- At  $t = 0$ , is the particle moving left or right? Justify.
- When is the particle at rest?
- When does the particle change direction?
- When is the particle's speed the greatest?
- What is the acceleration of the particle at  $t = 1$ ?
- When is the acceleration zero?
- When does the particle reach its maximum position?
- When does the particle reach its minimum position?

