

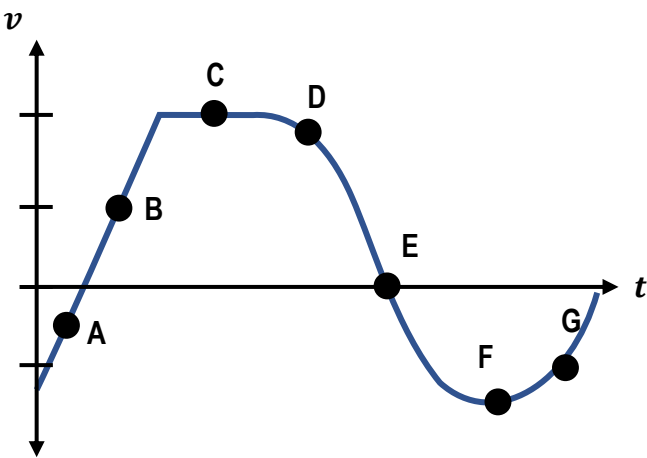
CONCEPT: CONCEPTUAL PROBLEMS WITH VELOCITY-TIME GRAPHS

You'll need to interpret velocity-time graphs to solve conceptual questions about position, velocity & acceleration.

EXAMPLE: The figure shows the velocity graph for a moving box. At which lettered point(s):

- 1) is the box moving forwards?
- 2) is the box moving backwards?
- 3) is the box at rest?
- 4) is the box turning around?
- 5) is the box's acceleration positive?
- 6) is the box's acceleration negative?
- 7) is the box accelerating the fastest?
- 8) is the box speeding up?

STEPS
1) Identify Variable: [Position Velocity (Speed) Accel.]
2) Identify Graph Feature: [Value Slope Curvature]
3) Identify Qualifier: [+ - 0 Up Down Sign Change max. min.]
4) Interpret from Graph



	Position (x) (or Displacement)	Velocity (v) (or Speed)	Acceleration (a)
X-T	Value	Slope	Curvature
V-T	Area	Value	Slope