Draw a Position-Time Graph from a Velocity-Time Graph

Original task 1 / independent drawing and calculation

Task 1

Velocity-time graph: 0 to 1 second, velocity 4 metres per second; 1 to 3 seconds, velocity 2 metres per second. Start at position 0 metres. Find positions at 1 second and 3 seconds and describe the two position-time segments.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Draw a Position-Time Graph from a Velocity-Time Graph

Original task 2 / independent drawing and calculation

Task 2

Velocity-time graph: 0 to 2 seconds, velocity 1 metre per second; 2 to 5 seconds, velocity 0 metres per second. Start at position 2 metres. Find positions at 2 seconds and 5 seconds and describe the curve.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Draw a Position-Time Graph from a Velocity-Time Graph

Original task 3 / independent drawing and calculation

Task 3

Velocity-time graph: 0 to 3 seconds, velocity negative 2 metres per second; 3 to 4 seconds, velocity 1 metre per second. Start at position 10 metres. Find positions at 3 seconds and 4 seconds and describe the slope changes.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Draw a Position-Time Graph from a Velocity-Time Graph

Original task 4 / independent drawing and calculation

Task 4

Velocity-time graph: 0 to 2 seconds, velocity 2 metres per second; 2 to 4 seconds, velocity negative 1 metre per second; 4 to 5 seconds, velocity 0 metres per second. Start at position 0 metres. Find positions at 2, 4, and 5 seconds and describe the full curve.

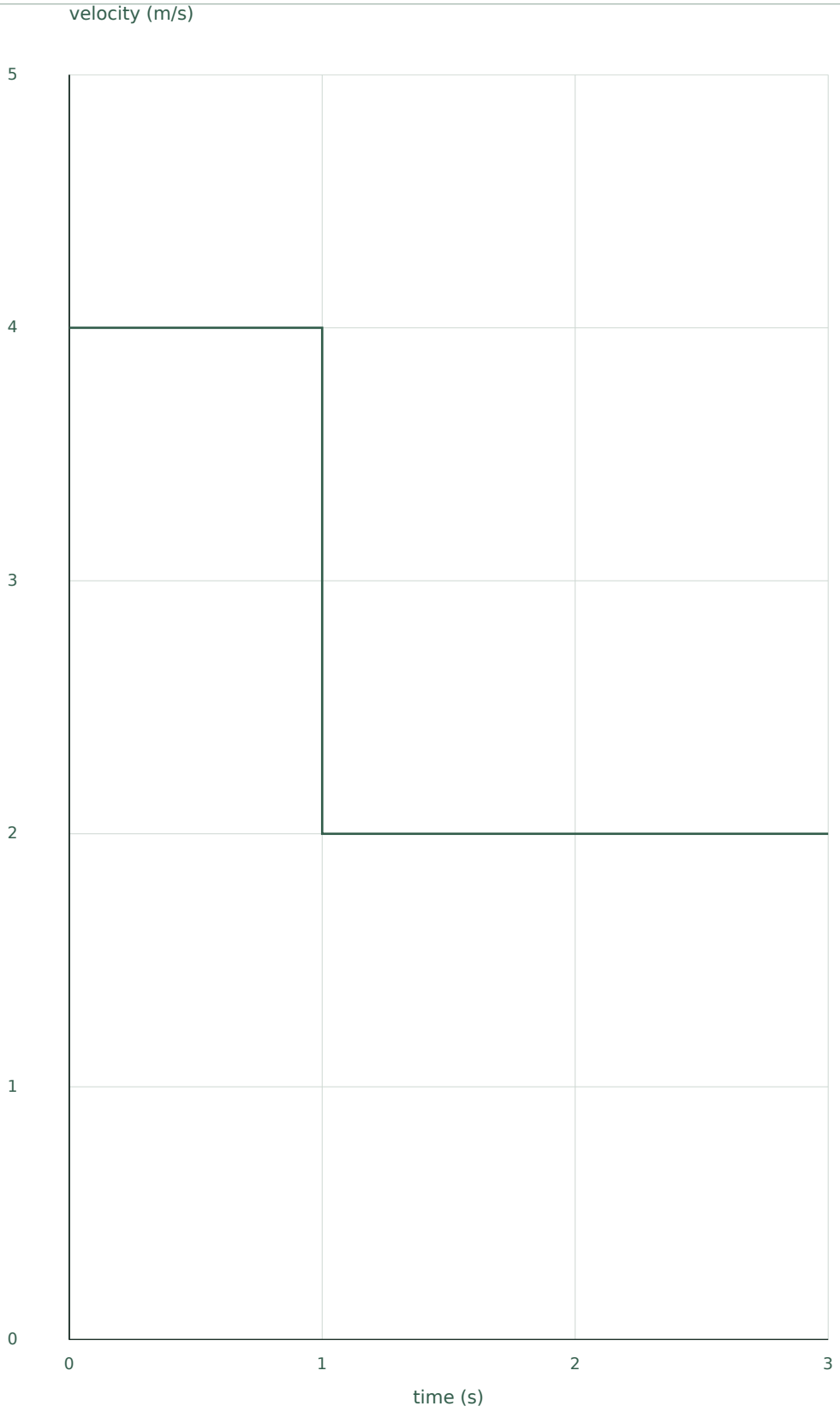
Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Full drawing sheet / reusable blank workspace

Reusable full drawing sheet for Tasks 1 to 4. Print another copy when needed. Keep all original task measurements; if a task specifies larger paper, use that paper size.

Draw a Position-Time Graph from a Velocity-Time Graph

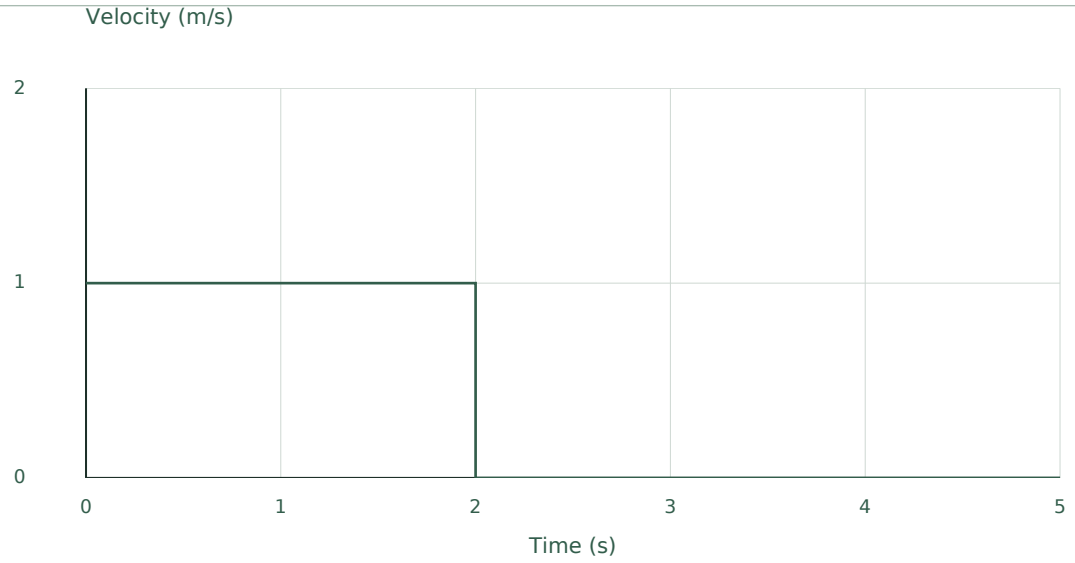
Velocity-time graph (given)



Given velocity-time graph from the prompt; no position-time solution shown.

Draw a Position-Time Graph from a Velocity-Time Graph

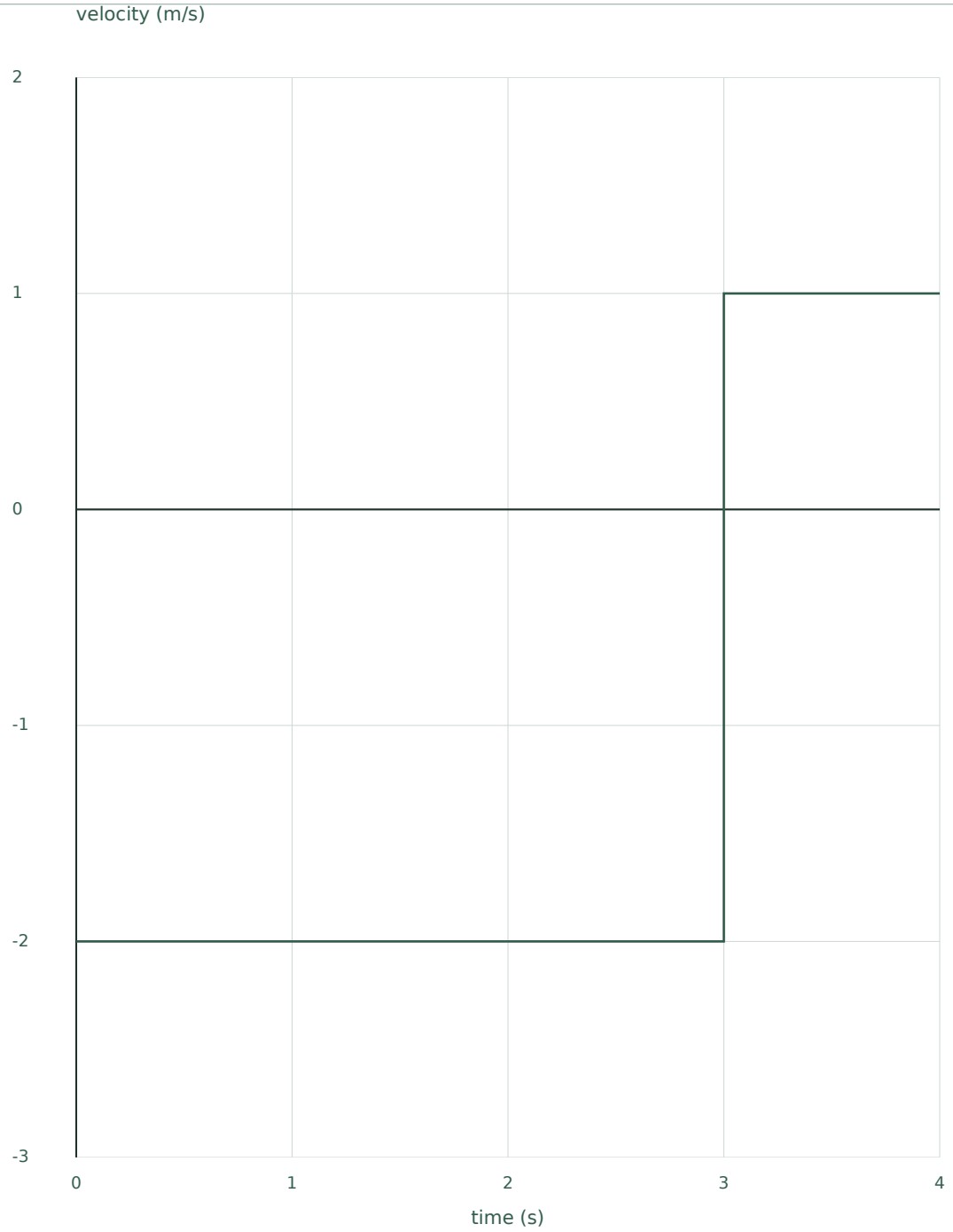
Velocity-time graph (given)



Given velocity-time graph from the prompt; no position-time solution shown.

Draw a Position-Time Graph from a Velocity-Time Graph

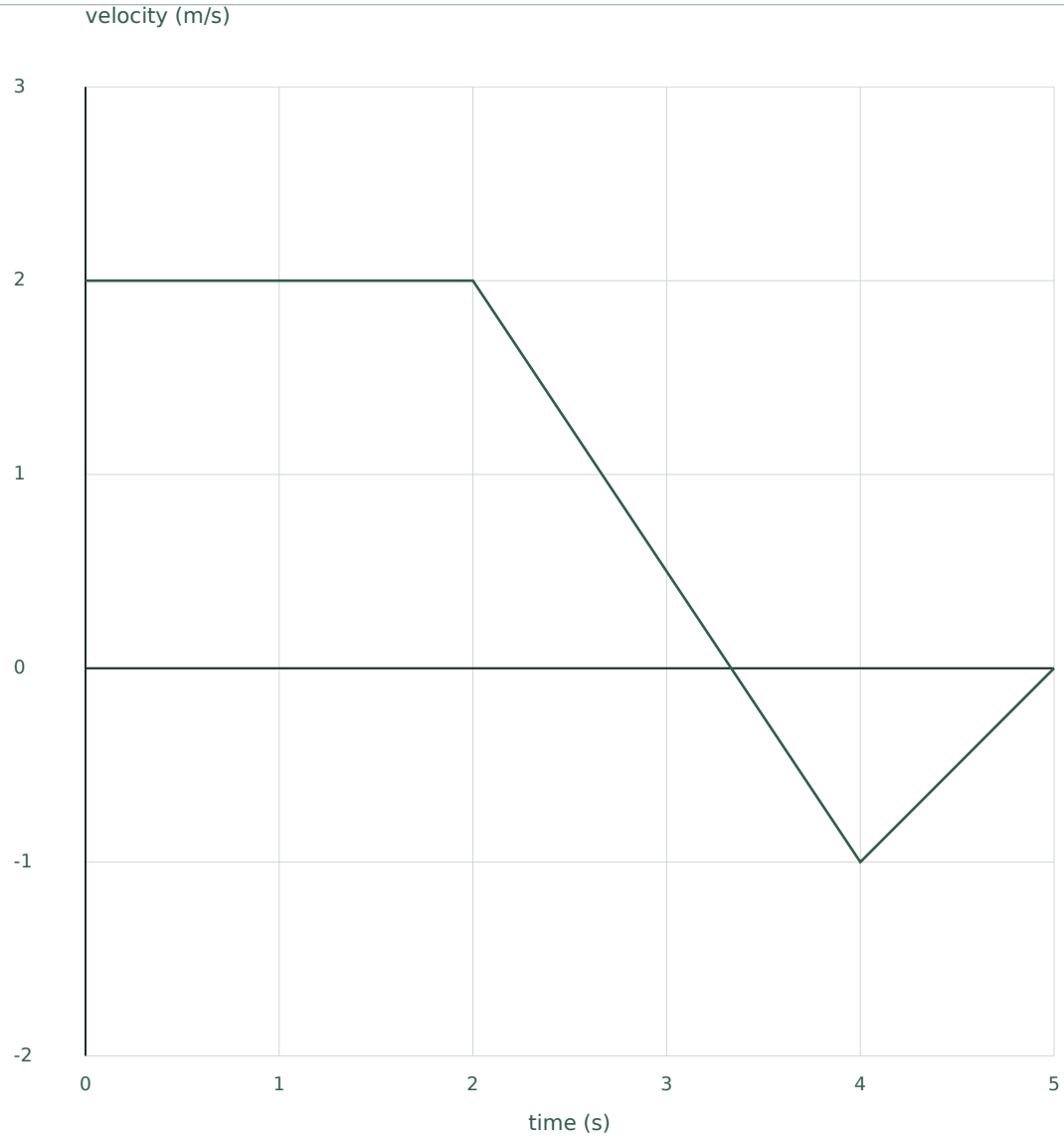
Velocity-time graph (given)



Given velocity-time graph from the prompt; no position-time solution shown.

Draw a Position-Time Graph from a Velocity-Time Graph

Velocity-time graph (given)



Given velocity-time graph for the task; position-time graph is to be drawn by the student.