Drawing Real-Life Graphs: Distance-Time and Cost-Quantity Practice

Original task 1 / independent drawing and calculation

Task 1

A walker starts 0 meters from a bench. He walks away at 60 meters per minute for 4 minutes, rests for 2 minutes, then walks back to the bench at 80 meters per minute. Plot the key points on a distance-time graph and state the time he returns to the bench.

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.

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Original task 2 / independent drawing and calculation

Task 2

A market stall charges a fixed 5 dollars to set up and 2 dollars per item sold. Plot a cost-quantity graph for 0 to 6 items. Find the cost for 4 items and the slope.

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.

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Original task 3 / independent drawing and calculation

Task 3

A car travels at 90 kilometers per hour for 2 hours, stops for 1 hour, then travels at 60 kilometers per hour for 1 hour. Draw a distance-time graph using hours and kilometers. Find the total distance and the time of the final point.

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.

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Original task 4 / independent drawing and calculation

Task 4

A phone plan costs a fixed 10 dollars per month plus 0.50 dollars per gigabyte used. Plot a cost-quantity graph for 0 to 8 gigabytes. Find the cost for 6 gigabytes and explain the vertical intercept.

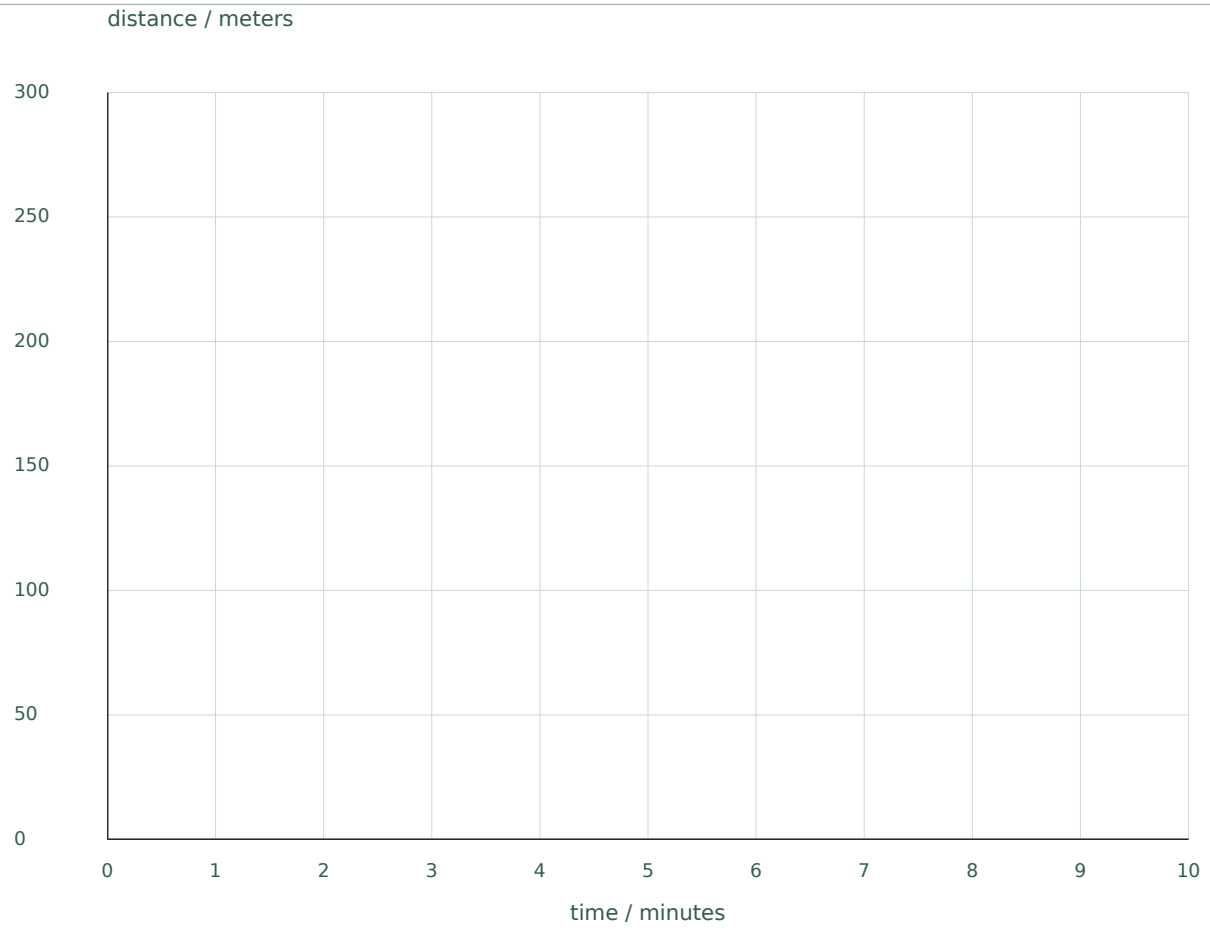
Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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.

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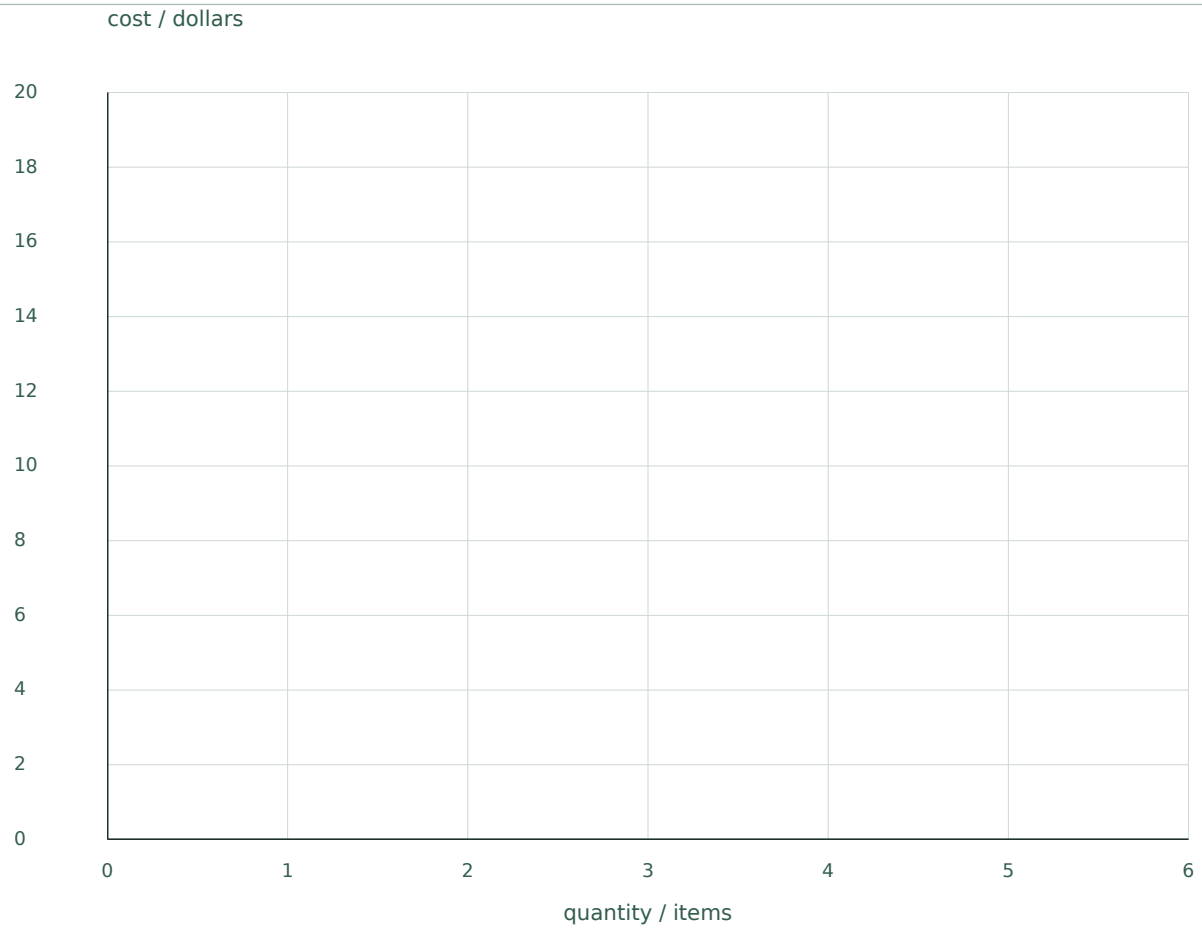
Task 1 / given or blank workspace



Student plotting workspace. No solution has been filled in.

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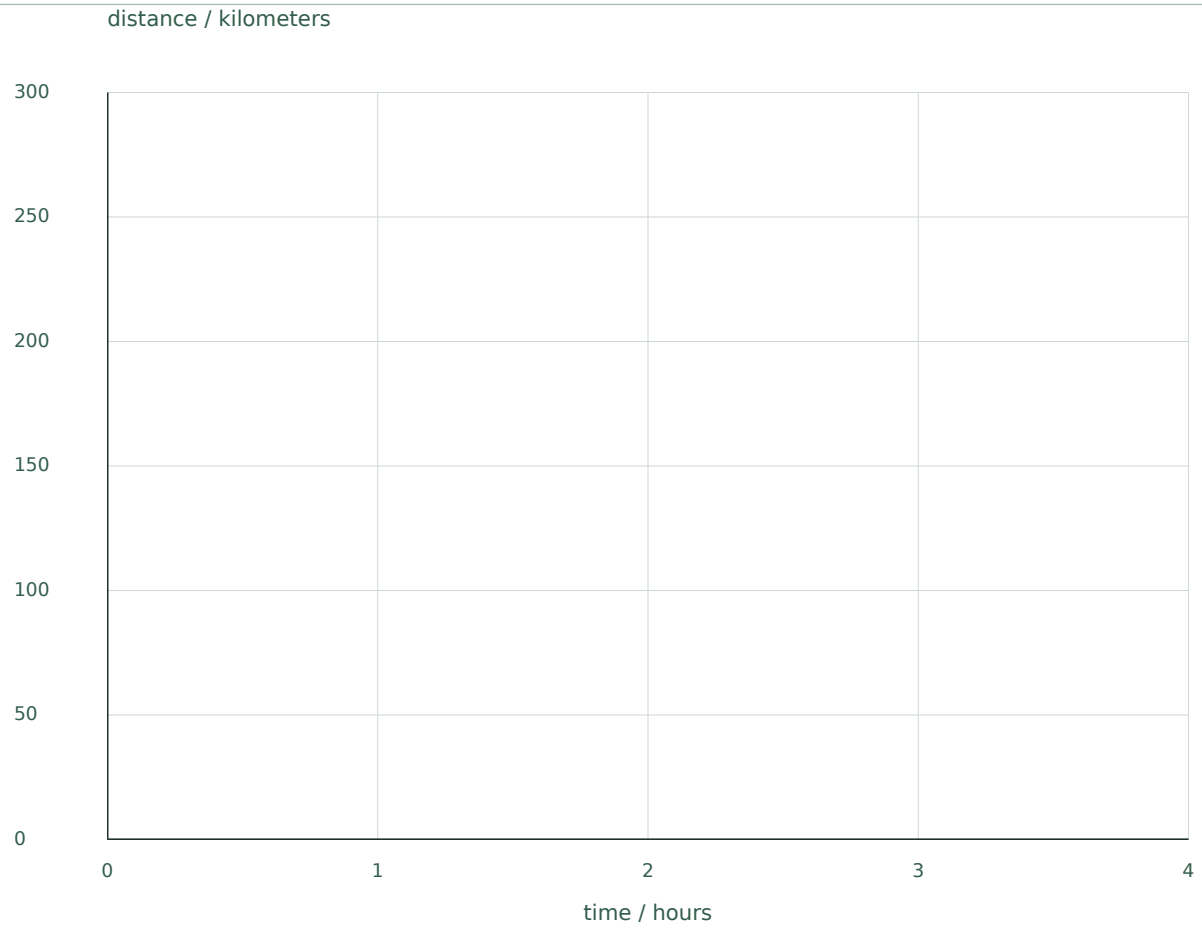
Task 2 / given or blank workspace



Student plotting workspace. No solution has been filled in.

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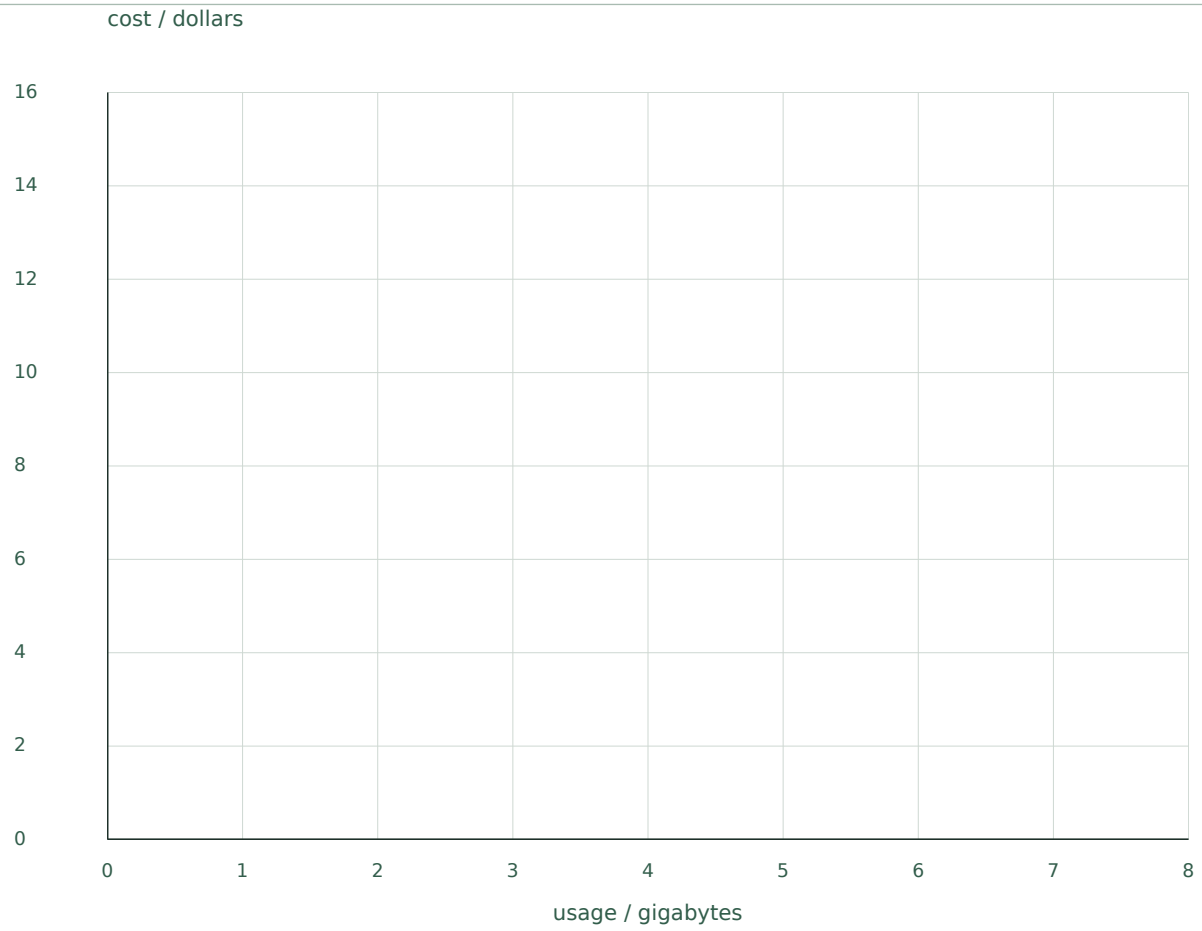
Task 3 / given or blank workspace



Student plotting workspace. No solution has been filled in.

Drawing Real-Life Graphs: Distance-Time and Cost-Quantity Practice

Task 4 / given or blank workspace



Student plotting workspace. No solution has been filled in.