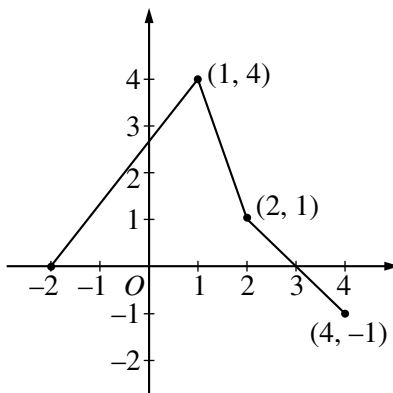


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5. The graph of the function f , consisting of three line segments, is given above. Let $g(x) = \int_1^x f(t)dt$.
- (a) Compute $g(4)$ and $g(-2)$.
 - (b) Find the instantaneous rate of change of g , with respect to x , at $x = 1$.
 - (c) Find the absolute minimum value of g on the closed interval $[-2, 4]$. Justify your answer.
 - (d) The second derivative of g is not defined at $x = 1$ and $x = 2$. How many of these values are x -coordinates of points of inflection of the graph of g ? Justify your answer.
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