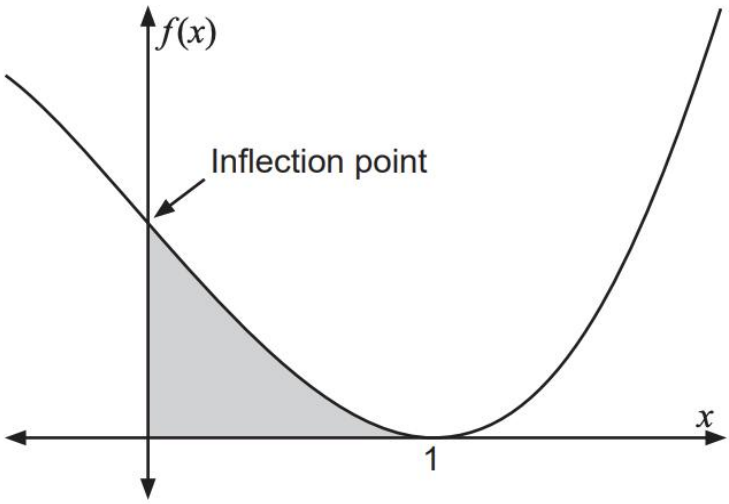
Question 3 **(7 marks)**

The graph of the cubic function $f(x) = ax^3 + bx^2 + cx + d$ is shown below. A turning point is located at (1, 0) and the shaded region shown on the graph has an area of $\frac{3}{2}$ units^2.



Use the above information to determine the values of a, b, c and d.