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$$f'(x) = 3ax^2 + 2bx + c$$

$$\textcircled{1} \quad f(0) = 0, \quad f(1) = -1$$

$$d = 0, \quad a + b + c = -1$$

$$\textcircled{2} \quad f'(1) = f'(0) = 0$$

$$c = 0, \quad 3a + 2b = 0$$

$$\Rightarrow a = 2, \quad b = -3$$