4 This question is about the curve $y = x^3 - 4x^2 - 3x + 2$.

(a) In this question you must show detailed reasoning.

Find the equation of the tangent to the curve at the point $(-1, 0)$. **[4]**

(b) Determine the exact coordinates of the other point on the curve where the tangent is parallel to the tangent found in part **(a)**. **[3]**