- 6 The equation of a curve is $y = x^3 + ax^2 + bx$, where a and b are constants.
 - (i) In the case where the curve has no stationary point, show that $a^2 < 3b$. [3]
 - (ii) In the case where a = -6 and b = 9, find the set of values of x for which y is a decreasing function of x.