The curve with equation $y = x^3 - 3x^2 + 2x + 5$ is shown on the diagram.
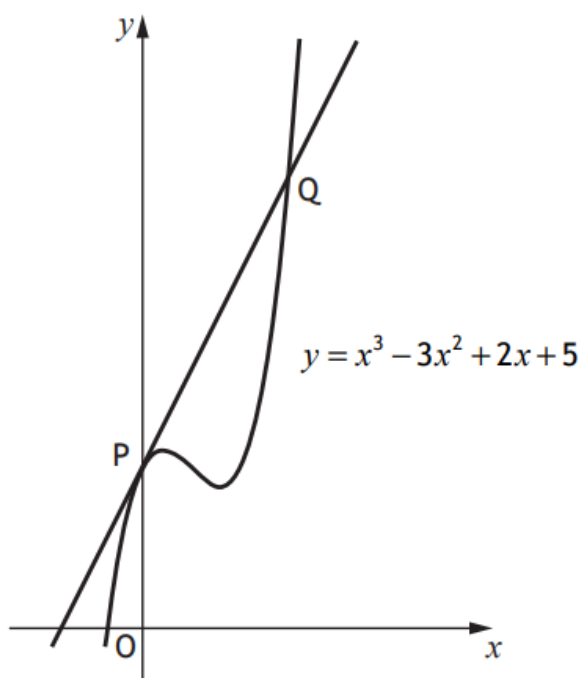
(a) Write down the coordinates of P, the point where the curve crosses the y-axis . **1**

(b) Determine the equation of the tangent to the curve at P. **3**

(c) Find the coordinates of Q, the point where this tangent meets the curve again. **4**

Answers:

(a) $(0, 5)$

(b) $y = 2x + 5$

(c) $(3, 11)$