

3. The curve C has equation

$$y = x^3 - 2x^2 + 5x - 7$$

(a) Find $\frac{dy}{dx}$ giving the answer in simplest form. (2)

(b) Hence find the equation of the tangent to C at the point where $x = 2$
Give the answer in the form $y = mx + c$, where m and c are integers.

(Solutions relying on calculator technology are not acceptable.)

(3)