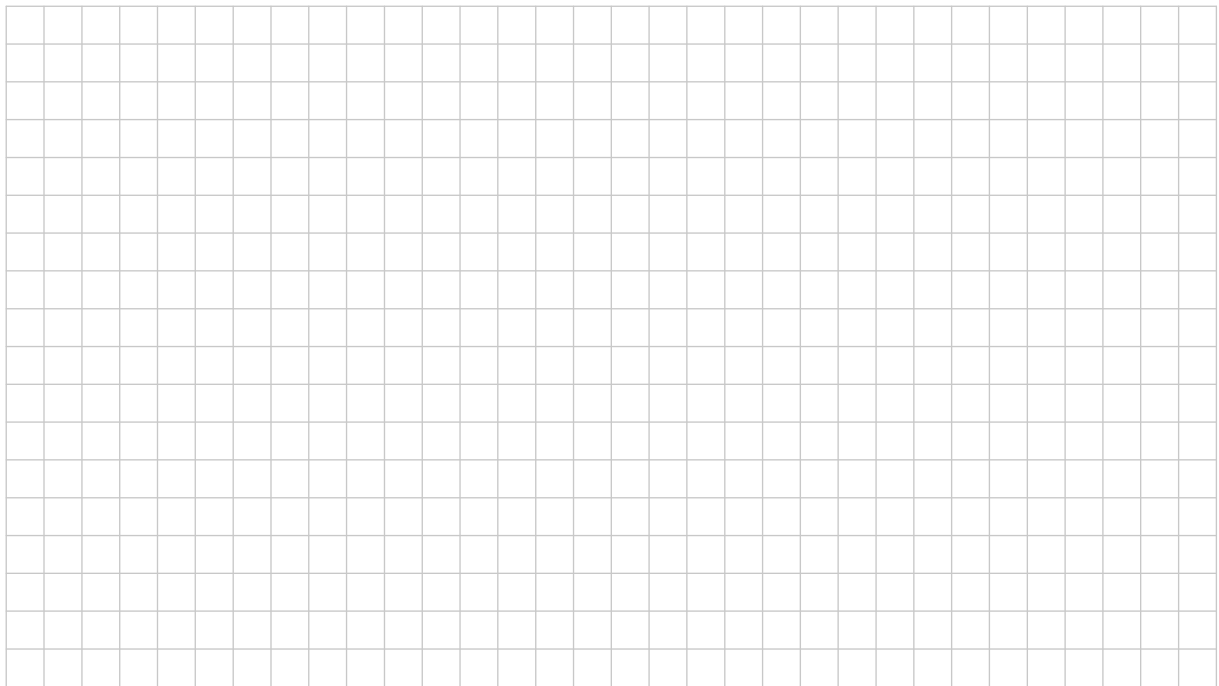


Question 4

(25 marks)

- (a) Differentiate the function $2x^2 - 3x - 6$ with respect to x from first principles.



- (b) Let $f(x) = \frac{2x}{x+2}$, $x \neq -2$, $x \in \mathbb{R}$. Find the co-ordinates of the points at which the slope of the tangent to the curve $y = f(x)$ is $\frac{1}{4}$.

