

**Answer all ELEVEN questions.**

**Write your answers in the spaces provided.**

**You must write down all the stages in your working.**

**1** Differentiate with respect to  $x$

$$6e^{3x^2} \cos 2x$$

**(3)**

**(Total for Question 1 is 3 marks)**



P 6 2 2 8 0 A 0 3 3 2