4. In 1997 the average CO<sub>2</sub> emissions of new cars in the UK was 190 g/km. In 2005 the average CO<sub>2</sub> emissions of new cars in the UK had fallen to 169 g/km. Given A g/km is the average CO<sub>2</sub> emissions of new cars in the UK n years after 1997 and using a linear model, (a) form an equation linking A with n. (3) In 2016 the average CO<sub>2</sub> emissions of new cars in the UK was 120 g/km. (b) Comment on the suitability of your model in light of this information.

(3)