2 The volume of a right circular cone is increasing at a constant rate of 12 cm³/s. The radius of the base of the cone is always half the height of the cone. Find, in cm/s, the exact value of the rate of increase of the height of the cone when the height is 4 cm.

(5)

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

....

(Total for Question 2 is 5 marks)

P 4 4 0 2 7 R A 0 3 3 2