**Question 4** 

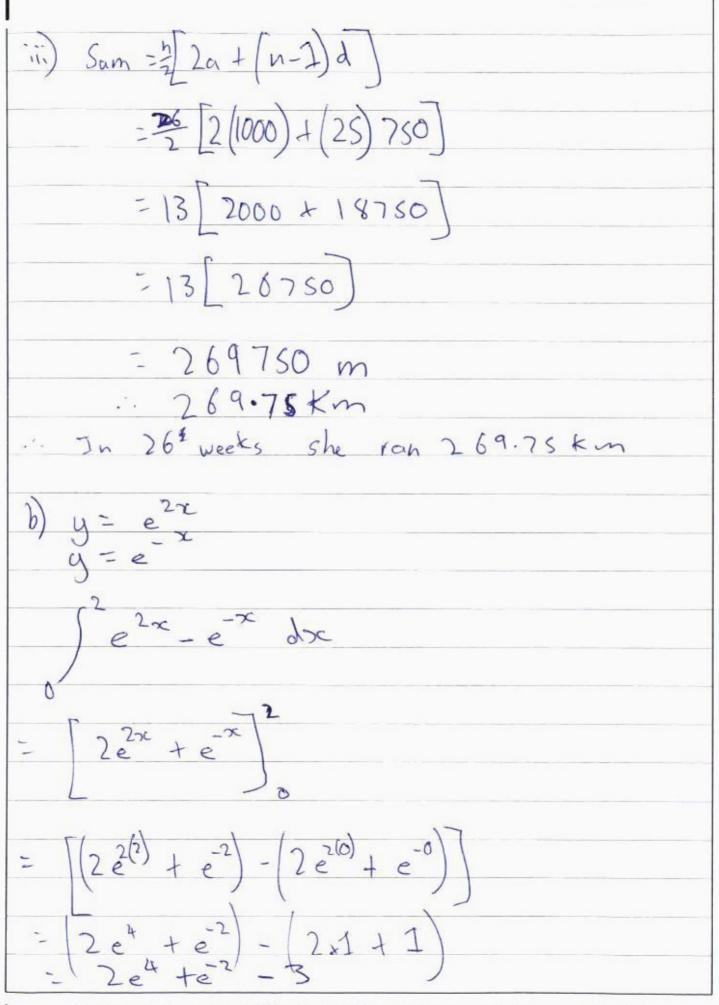
## 2010 HSC Mathematics

a);)T,=1000 d=750  $T_q = a + (n-1) \lambda$ = 1000 + (9-1)750 = 7000 - 7 Km . In the 9th week she ran 7km 1) 1000= at(n-1) d = 1000 + (n-1) 750 = 1000 + 750 - 750 10000 - 250 + 750 m -250 -250 9750 = 750n n = 9750 n = 13. In her 13th Week she ran 10km Additional writing space on back page.

Office Use Only - Do NOT write anything, or make any marks below this line

## **Question 4**

## 2010 HSC Mathematics



You may ask for an extra Writing Booklet if you need more space to answer question 4.

**Question 4** 2010 HSC Mathematics **Band 3/4** Sample 3 Start here M= Mint 5 = Strawberry C = Caramel P :) P(MM) + ((C) + (SS) 打+拉+拉 chocolotes have different (entres) 2 + 12 412 × +2)+ (+2 × +2 × 6

**Question 4** 

## 2010 HSC Mathematics

) = 1 + ex fa = 1 + e-x  $(1 + e^{x}) \times (1 + e^{x}) = (1 + e^{x}) + (1 + e^{x})$ 1+ extert(exe) = 2 terter Additional writing space on back page. 000 11 01