



Question 9

a) i)

$$\text{ii) } \frac{2}{3} (f(2) + f(4) + f(3))$$

$$\doteq \frac{2}{9} (x^2 - x)$$

$$\doteq \frac{2}{9} (2^2 - 2) + (4^2 - 4) + 4(3^2 - 3)$$

$$\doteq \frac{2}{9} (2) + (12) + 24$$

$$\doteq \frac{2}{9} (38)$$

$$\doteq 8 \frac{4}{9}$$

$$\text{b) } 5000 \times 1.0875^{21} \left(\frac{0.0875}{1.0875^{21} - 1} \right) = 5282.45$$

c)