

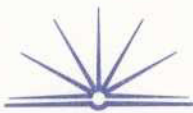
Question 8

a) 1923 - 18 Koalas

1993 - 5000 Koalas.

$$N = N_0 e^{kt}$$

$$= N_0 e^{k \cdot 70}$$



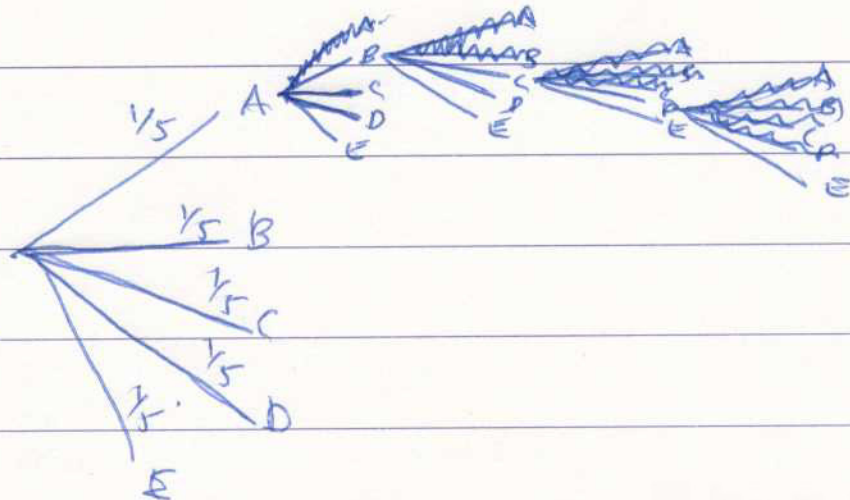
A

B

C

D

E



i) $\frac{1}{5}$

ii) $\frac{1}{5} \times \frac{1}{4} \times \frac{1}{3} \times \frac{1}{2} \times 1$
 $= \frac{1}{120}$

c) $y = f(t)$
 $y' = f'(t)$