'A Shrinking Rainforest'

a) Equation will be of the form $S = 300{,}000 \times x^t$

When $t = 0, S = 300{,}000$, when $t = 1, S = 294{,}000$

Therefore $x = \frac{49}{50}$

Thus equation is: $S = 300{,}000 \times \frac{49^t}{50}$

[4 marks]

b) Using the equation found in (a):

When $t = 30, S = 164{,}000 (3.s.f)$

Comparative statement.
e.g. the exponential model predicts a value close to the true value, thus the model is reliable.
[2 marks]

c) Make the coefficient, x, closer to one.

[1 mark]