3 The length, x metres, of a Green Anaconda snake which is t years old is given approximately by the formula

$$x = 0.7\sqrt{(2t-1)},$$

where $1 \leqslant t \leqslant 10$. Using this formula, find

(i) $\dfrac{\mathrm{d}x}{\mathrm{d}t}$, [2]

(ii) the rate of growth of a Green Anaconda snake which is 5 years old. [2]