International GCSE Further Pure Mathematics – Paper 2 mark scheme

Question Number	Scheme	Marks
1	$\frac{ds}{dt} = 3t^2 + 8t - 27 = 8$ $3t^2 + 8t - 35\ (= 0)$ $(3t - 7)(t + 5) = 0$ $t = \frac{7}{3}$	M1 A1 M1A1cao **[4]**

M1	Attempt the differentiation and equate their result to 8. Power of at least one term to decrease and none to increase'
A1	Obtain the correct 3TQ. Terms can be in any order and = 0 may be omitted.
M1	Attempt to solve their 3TQ by any valid method. Must reach t = ...
A1cao	For $t = \frac{7}{3}$ (negative answer must be omitted or eliminated) or t = 2.33 or better