7	A parachutist of mass $m \log n$ opens his parachute when he is moving vertically downwards with a speed of
•	$50 \mathrm{ms^{-1}}$. At time t s after opening his parachute, he has fallen a distance x m from the point where he opened
	his parachute, and his speed is $v \mathrm{ms^{-1}}$. The forces acting on him are his weight and a resistive force of
	magnitude mv N.

a)	Find an expression for v in terms of t .	[6]

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(b)	Find an expression for x in terms of t . [3]		
(c)	Find the distance that the parachutist has fallen, since opening his parachute, when his speed is $15\mathrm{ms^{-1}}$. [2]		