1. Consider the differential equation , where .
	1. On the axes provided, sketch a slope field for the eight points indicated.
	 
	2. Find the particular solution  to the differential equation with the initial condition  and state its domain.
2. Consider the differential equation .
	1. On the axes provided, sketch a slope field for the nine points indicated.
	 
	2. There is a horizontal line with equation  that satisfies this differential equation. Find the value of *c*.
	3. Find the particular solution  to the differential equation with the initial condition .
3. Consider the differential equation , where .
	1. On the axes provided, sketch a slope field for the nine points indicated.
	 
	2. Find the particular solution  to the differential equation with the initial condition .
	3. For the particular solution  described in part b, find .