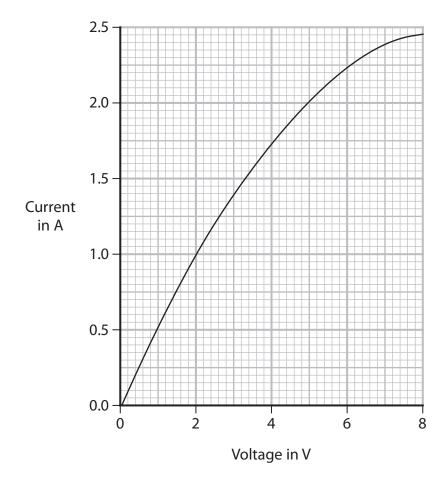
- **2** A student investigates how the current in a filament lamp changes when the voltage across the lamp is varied.
  - (a) Draw a circuit diagram the student could use in their investigation.

(4)

(b) The graph shows the student's results.



(i) Describe the relationship between curre	ent and voltage shown on the graph.	(2)
		(2)
(ii) State the formula linking resistance, volt	age and current.	(1)
(iii) Use the graph to determine the resistan voltage across the lamp is 7.2 V.	ce of the filament lamp when the	(3)
resistance =		
(Total for Question 2 = 10 marks)		

