Question Number	Answer		Mark
12a	Ammeter in series with cell and an external component with resistance Voltmeter parallel with cell Variable resistor included in circuit	(1) (1) (1)	3
12b	(Uses conservation of energy to) obtain the equation $\varepsilon = V + Ir$ Compares $\varepsilon = V + Ir$ with $y = mx + c$ e.m.f. is the y-intercept of the graph Internal resistance is the negative of the gradient	(1) (1) (1) (1)	4
	Total for question 12		7