

(b)	(i)	work done equals the <u>decrease</u> in GPE – <u>gain</u> in KE	B1	[1]
	(ii)	1. distance = area under line = $(7.4 \times 2.5) / 2 = 9.3 \text{ m}$ (9.25m)	C1 M1	[2]
		or		
		acceleration from graph $a = 7.4 / 2.5 (= 2.96)$ and equation of motion $(7.4)^2 = 2 \times 2.96 \times s$ gives $s = 9.3$ (9.25) m	(C1) (A1)	
		2. kinetic energy = $\frac{1}{2} m v^2$	C1	
		$= \frac{1}{2} \times 75 \times (7.4)^2$	C1	
		$= 2100 \text{ J}$	A1	[3]
		3. potential energy = mgh $h = 9.3 \sin 30^\circ$ PE = $75 \times 9.81 \times 9.3 \sin 30^\circ = 3400 \text{ J}$	C1 C1 A1	[3]
		4. work done = energy loss $R = (3421 - 2054) / 9.3$ $= 150$ (147) N	C1 C1 A1	[3]
4	(a)	<u>add small mass</u> to cause extension then remove mass to see if spring returns to original length	M1	
		repeat for larger masses and note maximum mass for which, when load is removed, the spring does return to original length	A1	[2]
	(b)	Hooke's law requires force proportional to extension graph shows a straight line, hence obeys Hooke's law	B1 M1	[2]
	(c)	$k = \text{force} / \text{extension}$ $= (0.42 \times 9.81) / [(30 - 21.2) \times 10^{-2}]$ $= 47$ (46.8) N m^{-1}	C1 C1 A1	[3]
5	(a)	lost volts / energy used within the cell / internal resistance when cell supplies a current	B1 B1	[2]

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