

MARK SCHEME TEST 2

1 (a)	use of $a = -\omega^2 x$ clear either $\omega = \sqrt{(2k/m)}$ or $\omega^2 = (2k/m)$ $\omega = 2 \pi f$ $f = (1/2 \pi) \sqrt{(2 \times 300)/0.240)}$ $= 7.96 \approx 8 \text{ Hz}$	C1 B1 C1 B1 A0 [4]
(b)	(i) resonance (ii) 8 Hz	B1 [1] B1 [1]
(c)	(increase amount of) damping without altering (k or) m ... (some indirect reference is acceptable) sensible suggestion	B1 [1]
		Total [7]
2 (a)	Acceleration/ force proportional to displacement (from a fixed point) either acceleration and displacement in opposite directions or acceleration always directed towards a fixed point	M1 A1 [2]
(b) (i)	Zero <u>&</u> 0.625 s or 0.625 s <u>&</u> 1.25 s or 1.25 s <u>&</u> 1.875 s or 1.875 s <u>&</u> 2.5 s	A1 [1]
(ii)	1. $\omega = 2\pi/T$ and $v_0 = \omega x_0$ $\omega = 2\pi/1.25$ $= 5.03 \text{ rad s}^{-1}$ $v_0 = 5.03 \times 3.2$ $= 16.1 \text{ cm s}^{-1}$ (allow 2 s.f.)	C1 C1 A1 [3]
2.	$v = \omega \sqrt{(x_0^2 - x^2)}$ either $\frac{1}{2} \omega x_0 = \omega \sqrt{(x_0^2 - x^2)}$ or $\frac{1}{2} \times 16.1 = 5.03 \sqrt{(3.2^2 - x^2)}$ $x_0^2/4 = x_0^2 - x^2$ $x = 2.8 \text{ cm}$	C1 A1 [2]
(c)	sketch loop with origin at its centre correct intercepts & shape based on (b)(ii)	M1 A1 [2]
		Total [10]

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