

2007 PRACTICAL PAPER 3

ANSWERS TO PRACTICAL PAPERS

1. (c)

Table 1

Distance X(cm)	35	40	45	50	55	60
Time t for 20 osc(s)	31.5	33.3	34.5	35.4	36.2	36.6
$T = \frac{t}{20} (s)$	29.5 - 33.5	31.3 - 35.3	32.5 - 36.5	33.4 - 37.4	34.2 - 38.2	34.6

(d)

(a) Slope tangent at X = 51-53 shown (1 mark)
With correct shape and direction, correct interval
(1 mark)

(b) Correct substitution (1 mark)
Correct evaluation to 4 s. figures or 2 decimal
places in standard form. (1 mark)

(c) Substitution of n (1 mark)
Correct evaluation to nearest whole number OR
check 2 decimal places in std form (decimal form)
(1 mark)

2. (b) (i)

E = 3.0 + 0.2 volts 2.8 - 3.2V (2 cells)

OR E = 1.5 + 0.1V = 1.4 - 1.6V (1 cell)