Final Mark Scheme

2338

June 2004

Allow in part (b) Ξ Results must be seen Ξ

Ξ

In each case accept results truncated or corrected to Results must be seen 1 sig fig or better

W1 for 2 terms correct or W1 for $x^2 - 4x - 3x + 12$ [2]

W1 for partial factorisation i's.w.

[2]

4

M2 for $\frac{450-393.75}{2}$ (×100) or 450 W2 for 87.5% [3]

M1 for $\frac{393.75}{450}$ (×100) or W1 for 56.25 seen

W1 for figs 925 seen

9

M2 for $\frac{999}{100-7.5}$ (×100) or

[3]

(11) (a) 229 to 231°

M3 for $180 + (\tan^{-1} \frac{3280}{2750})$ or W2 for 39.9 to 40.1° or W3 for 49.9 to 50.1° or

4

M2 for $\tan = \frac{3280}{2750}$ or

M1 for $\tan = \frac{2750}{3280}$

W3 for 4185 to 4215 or 4

(b) 4200 or 4190

M2 for $\frac{3280}{}$ cos 38.5 M1 for $\cos 38.5 = \frac{3280}{}$

figures after trigonometry seen. After W0 allow W1 for any answer to 2 or 3 significant

Note The use of grads and rads gives the following answers.

Grads. (a) A = 55.58, B = 44.42 (b) 3987.1.. leading to 4000 or 3990

Rads (a) A = 0.8731, B = 0.6977 (b) 4712.1 leading to 4700 or 4710

∞

 $32 = \frac{29 + 33 + 34}{2}$ (12)

W2 for 29 + 33 + 34 [= 96]

[3]

seen or

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