-		A	
Lina	INCOTE	Scheme	

2340

March 2004

Section B

8	123.3 to 124	

W3 M1 sub in cosine rule (if rearranged condone 1 sign error)
Or M2 -.55...
SC2 56 to 56.7

{3}

9(a)
$$\frac{1}{2}(2x + x + 5) x$$
 o.e.

W1

(b)
$$\frac{1}{2}(3x+5)x = 20$$

 $3x^2 + 5x = 40$

M1 or $\frac{1}{2}(3x^2+5x)$ or their(a) = 20

A1

M1 condone one error M1

A1 (W3 2.9 only)

{6}

W2 M1 (×) 0.94⁵ A1 6018 or 6020

(b) 2014 or 2013

W2 M1 × 0.94¹² or 0.94¹¹ or 3902/3 or 4151/2 or 11 or12 seen

{4}

W2 for 3 conditions W1 for 2 conditions

(b) <u>x</u> –90 o.e

W3 M1 <QPO = 180 – 90-their <QOP) or <QPR = 360 –90-90-their <QOR and M1 <QOP = 360 –x

Or alternative SSS / SAS

{6}

W1

12 $\frac{x^2 + 2x + 12}{(x-1)(x+4)}$

W3 M2 $x^2 +2x+12$ or M1 x(x-1)+3(x+4)and/or M1 denom.(x-1)(x+4)

{3}

13 144 to 145

W3 M1 π×4×9.2 or 115-116 M1 π×6×13.8 or 260(. ...) SC1 288 to 290

{3}

Total Section B

25