

*Errata for*  
***Integrated Mathematics for Explorers***  
*New Webpage: [www.simplicitysg.net/books/imaths](http://www.simplicitysg.net/books/imaths)*  
*Updated Jan 2016*

The corrected entries are listed below.

- p123 Problem 1 assumes  $a$  and  $b$  are not zero.
- p159 second line should read: “..partly because many of the ...”
- p161 last paragraph: “determines its main shape.”
- p165 formula A.48 RHS should have an overall minus sign: “ $= -2 \sin \dots$ ”
- p169 Characterisation of stationary points: “If  $\frac{d^2f}{dx^2} > (<) 0$  at the stationary point, it is a local minimum (maximum). Stationary points with  $\frac{d^2f}{dx^2} = 0$  can be examined by checking the sign of  $f'(x)$  on both sides of the point. Local extrema need not be global extrema.”
- p181 13(a): “...,  $A = 38.8^\circ$ , ...”.
- p181 13(b): “ $B = 63.3^\circ$  or  $116.7^\circ$ ,  $C = 66.7^\circ$  or  $13.3^\circ$ , ...”.
- p181 14(b): 19.3 or 4.83.
- p181 16: 1.04.
- p183 9(b):  $N : 7y + x - 36 = 0$ .
- p184 10(ai): “ $-\infty \leq x < 3/2$ ; ...”.
- p184 4(a): 19.64.
- p184 4(e): 16.47.
- p185 9(g): “describes vertical particle...”.
- p190 15:  $x = 0.63, 1.88, 1.90$ .
- p191 5(a): “...,  $y = (2 \mp \sqrt{13})/3$ ”.
- p191 5(c):  $\sqrt{13}/6$ .
- p191 5(d):  $\sqrt{13}/13$ .
- p191 Plane Geometry, 5:  $36.27^\circ$ .
- p191 Plane Geometry, 7(b)  $96.2^\circ$ .
- p191 Plane Geometry, 7(c)  $126^\circ$ .
- p192 9(c):  $t = 0.124$ .
- p192 9(d):  $-255$ .
- p192 9(e):  $t = 0.248$ .

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