## Errata - Year 12 Mathematics B

Despite our best efforts, a few errors have weaselled their way into the Year 12 textbook.

## Chapter Two

## Exercise 2C page 47

1f. The variable in the answer should be $t$ and not $x$.
2 m . Since students have to expand the expression to solve this, the answer is better expressed as

$$
\frac{4 x^{3}}{3}+10 x^{2}+25 x+c
$$

## Chapter Three

## Exercise 3E

1p. answer is $(-2 \sin x) /\left(3 \cos ^{\wedge} 2 x\right)$.

## Exercise 3H

Q1 (q) Answer is missing a - sign.

## Exercise 3I

Q1 (f) Answer has the wrong variable.

## Exercise 3M

Q1h. The answer should be $3 \sin (u / 3)+c$

## Exercise 3P page 103

3. This question is the same (almost) as question 2.
4. The coordinates of point $P$ are incorrect, they should be $\left(\frac{5 \pi}{6},-\frac{\sqrt{3}}{2}\right)$.
5. a. The question is misplaced, as it should be in the Chapter 2 problem set. There is a typo as well; the question should read, "What is $\int f(x) d x$ ?"
b. This question is also misplaced - it should be in the problem set for Chapter 8. Here is an alternative question along the same lines:
If $y=x \sin x$, find $\frac{d y}{d x}$.
Hence evaluate $\int_{0}^{\frac{\pi}{2}} x \cos x d x$

## Chapter Four

## Exercise 4F

4d. The answer is 1.

## Exercise 4G page 136

2e. The phrase "The players decide to change to rules." should read "The players decide to change the rules."

The phrase "...player B wins $\$ 5$." should read "... player A wins $\$ 5$."

## Exercise 4I page 143

3. Oh dear, a really fundamental error. The equation of a sphere of radius $r$ is given by $x^{2}+y^{2}+z^{2}=r^{2}$.

4a. The first die should be labelled $\mathbf{A}$.

## Chapter Five

## Exercise 5C

Q 1g answer should be 1.387
Q 2a 0.738
Q 2b answer should be -0.326
Q 3 3
Page $179 \log \mathrm{E}=4.8+1.5 \mathrm{M}$
A clarification is needed here. This is only the seismic energy associated with the earthquake and not the total energy. The total energy would be many, many times greater. The total energy can be predicted from the seismic energy.

## Chapter Seven

## Example 7.5 page 209

The phrase "The amount of the investment after 1998 years ..." should read "The amount of the investment after 2002 years ...". The answer is still correct, thank goodness.

## Exercise 7B

Q6c, Q6d. The Amount and not the Interest is given.

## Exercise 7M

Q1. "...Yanna will pay of fall these debts..." should be "...Yanna will pay off all these debts..."

## Chapter Eight

## Exercise 8E

page 443 Q4 b. "...remaining after 0 minutes..." should be "...remaining after 10 minutes..." The answer is correct.

