

## In this issue

The Integral  
From the President  
Historical Profile: Bernoulli Family  
Puzzle: Word Search

## Upcoming events

Board Games Night - 10/10  
Movie Night - Week 10  
AGM - Week 11

## More articles

Can't get enough maths? Visit [aums.org.au/colaums](http://aums.org.au/colaums) for articles on maths, history, profiles, puzzles and more!

## Contact details

AUMS email  
[mathsatadelaide@gmail.com](mailto:mathsatadelaide@gmail.com)  
AUMS website  
[aums.org.au](http://aums.org.au)  
AUMS Facebook page  
[facebook.com/UofAMathsSociety](https://facebook.com/UofAMathsSociety)

## Contribute

Have an idea for an article or want to contribute? Visit the website or contact the editor at [colaums.space@gmail.com](mailto:colaums.space@gmail.com)

## The Integral

Oh, how wondrous and divine  
There is no symbol to compare  
The gorgeous integration sign  
So sleek, immeasurably fair.

Behold the stroke that therein fits  
The slender curve at origin  
Original, though I admit -  
I've seen it on my violin.

Although so elegant you say,  
I see my pen do more and more  
There surely is a better way -  
They're really bloody hard to draw.

I see now, at this later stage,  
A f\*cking million on my page.

- Max Wurm

## From the President



After four delicious BBQs, many intriguing student talks, a cracking pub crawl, a challenging quiz night, and an insane (open) ball with over 100 attendees in attendance, its not hard to believe the year is almost done (although there are still a couple of events left - dont write AUMS off for 2019 just yet). None of this would have been possible without the awesome AUMS committee (love you all!), our enthusiastic members (love you guys too!) and the awesome crew at the Maths Learning Centre (you guessed it - love you too!). With all these cool folks, alongside our best friends at Australias Pizza House, I for one have loved every event, and hope you have too. For those graduating - all the best - and to the rest of us - bring on 2020!  
- Isabelle Greco, AUMS President

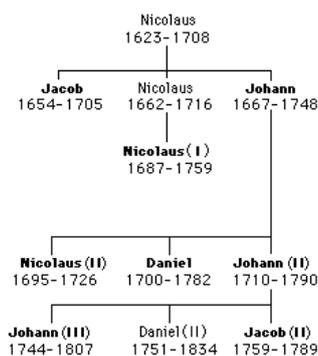
## Puzzle: Word Search

In the following puzzle, you will find the names of  $5!!/3$  (note the double factorial) well-known mathematicians. The names may be backwards, so watch out!

- Izzy Farmer

H	D	C	M	U	B	C	U	P	U	C	Y	F	O	J	Y	M	Y	Y	J	J	A	F	S	N	X	Y	T	T	O
L	Q	U	G	W	S	I	N	O	O	E	F	O	O	A	G	I	I	J	V	Q	O	E	O	G	F	D	W	V	N
O	G	Y	F	O	G	A	U	S	S	E	U	C	L	I	D	B	C	I	N	I	T	E	Z	Z	V	C	M	F	O
V	K	X	T	S	A	Y	A	K	S	V	E	L	A	V	O	K	V	C	U	R	T	A	Z	O	O	X	C	A	S
F	K	Q	K	B	E	A	R	Y	A	B	H	A	T	A	C	P	I	Z	A	H	C	X	A	G	A	G	N	G	N
J	L	L	T	W	H	J	E	Z	T	N	G	Y	R	Z	D	F	N	C	E	N	C	O	I	K	A	I	D	G	I
B	A	Y	R	U	U	O	Z	S	B	H	A	O	R	H	J	D	S	R	H	G	O	B	K	W	Q	R	A	Z	B
S	C	N	D	M	X	C	G	A	I	M	U	S	J	S	J	E	F	F	G	G	Q	B	R	P	O	G	T	L	O
B	S	E	Y	Y	G	P	K	Y	R	C	H	K	H	N	D	V	Y	B	N	N	I	U	I	O	T	O	X	W	R
E	A	Q	A	K	A	A	I	K	D	G	J	A	V	Y	H	C	B	X	K	L	E	A	H	F	X	U	S	K	R
Q	P	B	F	I	M	R	F	R	N	O	S	N	H	O	J	N	H	C	T	Q	F	W	J	P	H	Y	A	B	N
Z	A	T	L	H	T	X	C	K	H	A	Y	Y	A	M	M	D	I	N	P	Y	K	X	T	Z	J	S	J	X	U
E	I	I	R	F	J	A	K	H	R	B	V	T	I	X	I	E	L	E	I	B	N	I	Z	O	T	F	K	R	W
P	Y	O	B	I	Z	R	P	D	I	J	T	F	A	X	R	V	Y	B	G	W	E	N	R	I	N	G	N	C	W
F	C	N	U	H	B	Q	S	Y	O	M	R	V	E	T	Z	E	Z	F	C	Z	B	N	J	A	B	A	Z	R	M
L	O	V	E	L	A	C	E	B	H	Y	E	U	U	G	A	R	R	W	A	T	E	A	I	I	N	E	C	J	Z
V	E	J	C	S	A	Q	I	B	F	C	A	D	L	U	K	E	L	F	H	I	R	M	L	C	E	T	S	B	O
A	A	J	U	S	T	U	J	M	G	W	W	D	E	D	H	S	A	F	Q	Z	N	E	D	H	Q	A	W	S	X
P	P	E	Q	C	A	U	M	Z	X	K	X	Q	R	S	A	T	P	Y	G	E	O	I	I	I	S	N	Y	I	V
Y	Z	O	Y	F	M	N	E	E	R	B	C	R	M	U	N		L	N	W	I	U	R	O	R	L	A	W	T	R
T	X	I	J	P	R	I	V	Z	I	F	F	E	X	A	I	B	A	I	G	J	L	I	P	A	T		I	Q	Z
H	L	L	T	J	E	A	H	K	P	N	C	J	U	P	O	O	C	T	M	Z	L	G	H	K	M	A	P	Y	C
A	F	Z	L	E	F	M	B	J	G	A	S	L	F	V	O	O	E	I	U	X	I	H	A	G	D	G	Y	B	E
G	G	Q	L	P	I	R	H	V	L	H	C	T	X	O	D	L	K	N	B	T	M	Z	N	P	I	N	Y	E	D
O	D	Y	B	G	Y	E	P	E	R	A	G	N	E	O	T	E	W	A	P	O	W	V	T	T	N	E	Z	J	H
R	H	K	Y	G	D	G	V	U	G	O	Q	D	A	I	C	M	B	M	N	C	J	G	U	P	B	S	Q	A	P
A	Q	R	E	Y	C	O	T	O	K	F	U	W	Q	Q	N	B	H	R	L	X	U	S	S	X	K	I	T	T	C
S	B	I	T	K	L	H	J	H	R	H	U	I	E	R	A	T	O	S	T	H	E	N	E	S	P	Z	W	D	V
B	G	N	I	R	U	T	T	U	H	Q	V	X	U	G	R	U	S	H	Y	C	E	W	X	B	W	U	Z	E	C
V	N	E	J	Y	M	E	L	O	T	P	V	Z	E	B	M	A	D	U		C	H	Â	T	E	L	E	T	Q	X

The Bernoulli family



## Historical Profile: Bernoulli Family

The name Bernoulli comes up often in mathematics, as this prolific family has famously produced eight gifted mathematicians, influencing fluid dynamics, probability, calculus, and many other areas. The family originated in Antwerp (then in the Spanish Netherlands), but moved to Basel, Switzerland. The first mathematicians of the family were brothers Jacob, after whom Bernoulli numbers were named, and Johann, an early adopter of infinitesimal calculus. The family tree of mathematicians grew quickly from there, as did their academic influence, making Bernoulli a household name (assuming your household is also full of mathematicians).