

# Mathemalchemy Destinations (Both New and Preexisting)

**A wonderful world of mathematics!**

# Destination #1: Knotical Bay

# Knotical Bay

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The Knotical Bay Ecosystem has a wide array of life forms, such as various knots. These knots include, but are not limited to: the trefoil knot, the cinquefoil knot, and the unknot.



# Destination #2: The Isle of Symmetry

# The Isle of Symmetry

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This place is full of symmetry, as shown by the building, plant life, and animal life. In particular, one will see rotational symmetry and reflective symmetry. Have your mirror handy!



# Destination #3: The Tower of Infinity

# The Tower of Infinity

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One might ask just what kind of infinity can they expect to find here. Luckily for us, this tower is simply countable infinity. It still stretches high into space so it's best to slowly ascend, else you might get altitude sickness.



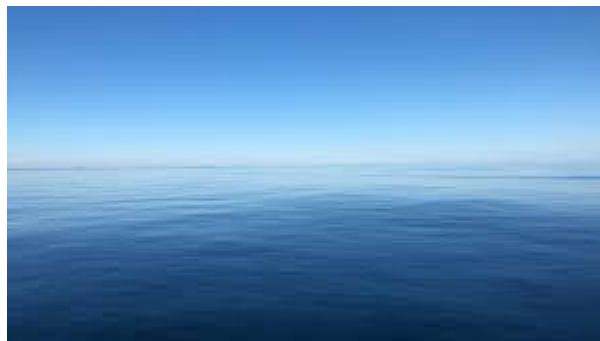
# Destination #4: The Ocean of the Past



# The Ocean of the Past

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In this vast sea, Babylonian and Mayan numbers swim about.



𐎶 1	𐎶 11	𐎶 21	𐎶 31	𐎶 41	𐎶 51	0	1	2	3	4
𐎷 2	𐎷 12	𐎷 22	𐎷 32	𐎷 42	𐎷 52	⊖	•	∴	∴∴	∴∴∴
𐎸 3	𐎸 13	𐎸 23	𐎸 33	𐎸 43	𐎸 53	5	6	7	8	9
𐎹 4	𐎹 14	𐎹 24	𐎹 34	𐎹 44	𐎹 54	—	•	∴	∴∴	∴∴∴
𐎺 5	𐎺 15	𐎺 25	𐎺 35	𐎺 45	𐎺 55	10	11	12	13	14
𐎻 6	𐎻 16	𐎻 26	𐎻 36	𐎻 46	𐎻 56	==	•	∴	∴∴	∴∴∴
𐎼 7	𐎼 17	𐎼 27	𐎼 37	𐎼 47	𐎼 57	15	16	17	18	19
𐎽 8	𐎽 18	𐎽 28	𐎽 38	𐎽 48	𐎽 58	≡	•	∴	∴∴	∴∴∴
𐎾 9	𐎾 19	𐎾 29	𐎾 39	𐎾 49	𐎾 59	15	16	17	18	19
𐎿 10	𐎿 20	𐎿 30	𐎿 40	𐎿 50		≡	•	∴	∴∴	∴∴∴

# Destination #5: The Wallpaper Cottage

# The Wallpaper Cottage

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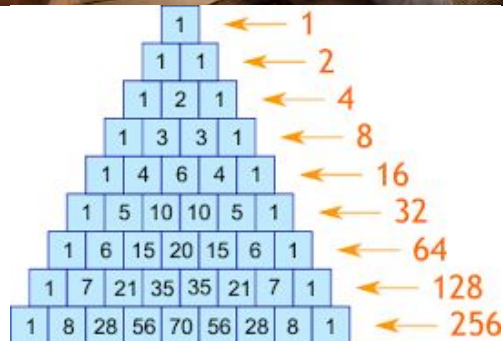
This cottage's interior walls are entirely covered in the wallpapers we examined in class.



# Destination #6: Pascal's Hotel

# Pascal's Hotel

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Weary travelers can rest here for the night, each floor has rooms labeled with each row of Pascal's Triangle.



# Destination #7: The Golden Pool

# The Golden Pool

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Before a curious traveler might inquire, no the pool is not filled with liquid gold. It is called The Golden Pool because it is in the shape of the Golden Rectangle.



# Destination #8: The Fractal Desert



# The Fractal Desert

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In this desert, a traveler will find many cacti that are all fractals! Do not touch, they're sharp!

