Mat 115r April18, 2024

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Personal Logo- I will have a larger version on the day of the presentation. I reduced it so that I could include it in this document.

**Create your own personal Logo. The logo should use elements from the mathematics we have learned (or that you know from some other class or place or person) combined in an original way the represents YOU.**

**A black and white symbol with kokopelli

Description automatically generatedYIN-YANG Surrounded by KOKOPELLI’s**

This is a visual representation of elements that I try to incorporate into my daily life as well as my philosophical and spiritual beliefs that we are all interconnected and every action is mirrored. We are all better than our separate parts and need all elements to have balanced lives.

The mathematical concept that I am aligned with is symmetry. Specifically, rotational symmetry, and reflective or mirror symmetry. The outer design or KOKOPELLI has no reflective symmetry, but has R4 rotational symmetry. The inner YIN-YANG has no reflective symmetry and R1 rotational symmetry. Taken as a whole it is R1 order of rotation and no reflective symmetry.

The following is taken from our handouts Day 13.

“A shape with ***rotation (or rotational) symmetry*** can be rotated round its center so that it fits on top of itself more than one way. The order of rotation symmetry is the number of different positions a shape fits on top of itself . We say that a shape with no rotation symmetry has order 1 as it fits on top of itself in only one way.

“A shape with ***reflection symmetry*** has one or more mirror lines that reflect one half of the shape exactly on to the other half. These mirror lines are called lines of symmetry.”

These concepts of symmetry are also observed in Pascal’s Triangle, and in nature.

**Kokopelli-** It is a Native American folklore and symbol that has many depictions spoken of by the Hopi and Zuni tribes of the Southwest. It is said he is the God of fertility, bearer of good luck, symbol of renewal, and brings happiness and joy through his music played through his flute. I identify with all of these themes. On my father’s side we are descended from the Taino tribe in the Caribbean, and like the Zuni and Hopi tribes, we are a peaceful, joyful, culture that expresses ourselves through our music. It is through constant renewal that we grow. Music has always been the media through which I am most creative or fertile.

**Yin-Yang-** A philosophy that has its origins in China. It is seen as interconnected, with a portion carved out and appearing on the other side, forming the whole. I see this as contrasting parts of my personality that compliment each other, rely on each other, and together make the whole person that I am. I would not be able to remove any portion of myself and still be who I am. Taken together, I see that I am greater when all parts of me, my creativity, contrasting characteristics, duality, music, and the need to explore and grow forming a dynamic ME.