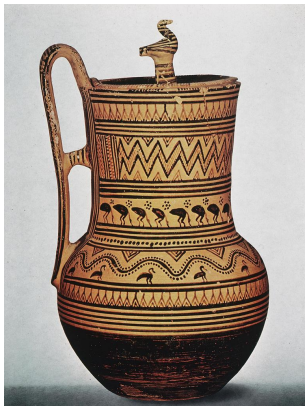


# MATH 122

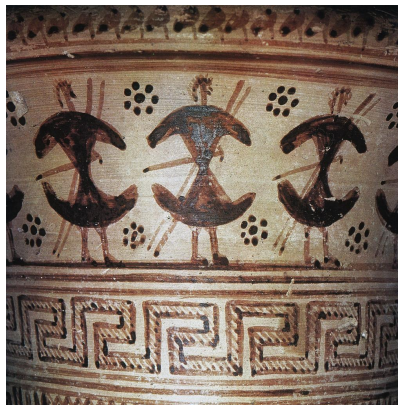
## Tessellations

Richard Hammack

<http://www.people.vcu.edu/~rhammack/Math122/>



Funeral Jar, Greek, c. 850 B.C.



Jug from Attica Greece, c. 850 B.C.

# Navajo Rug Designs



c. 1890



c. 1890



c. 1895



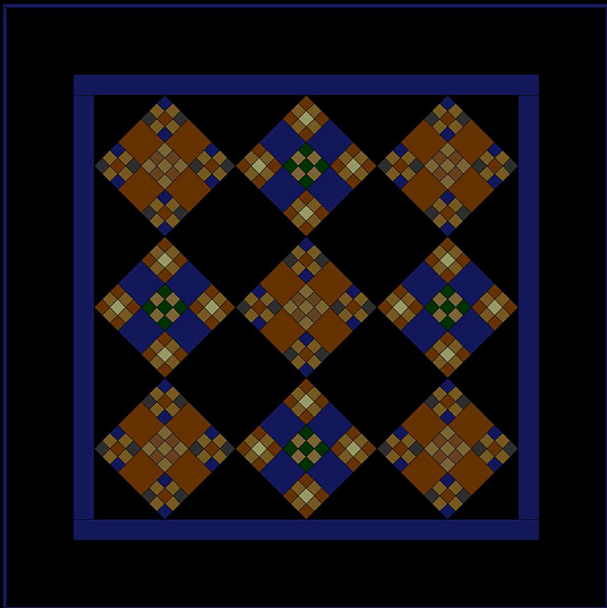
c. 1895



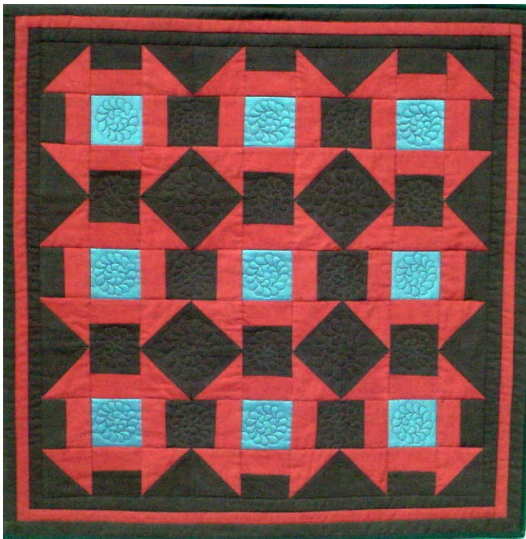
c. 1920



c. 1920



Amish Quilt



Amish Quilt



Amish Quilt

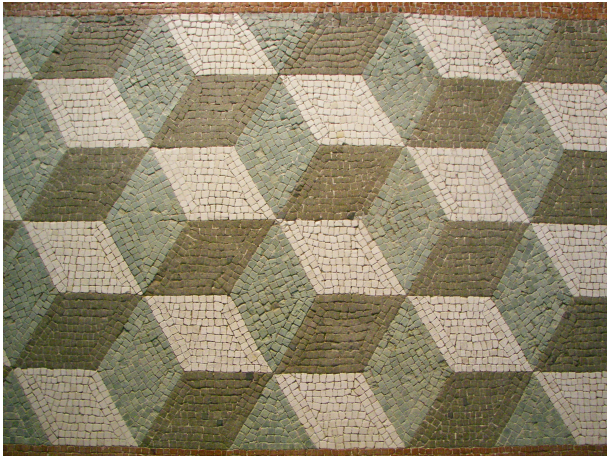


Floor designs, Agra, India, 1628

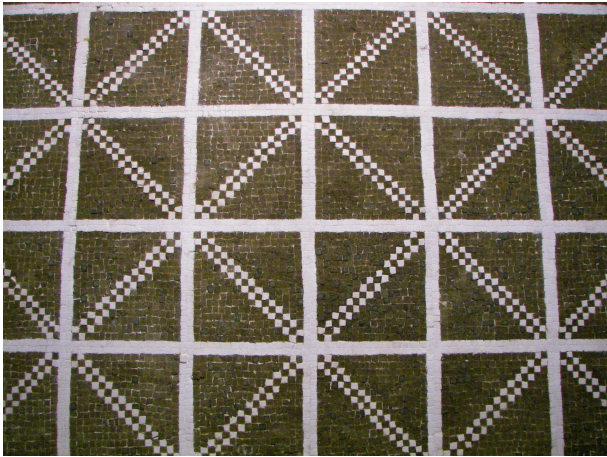


Pompeii, Italy, c. 200 B.C.

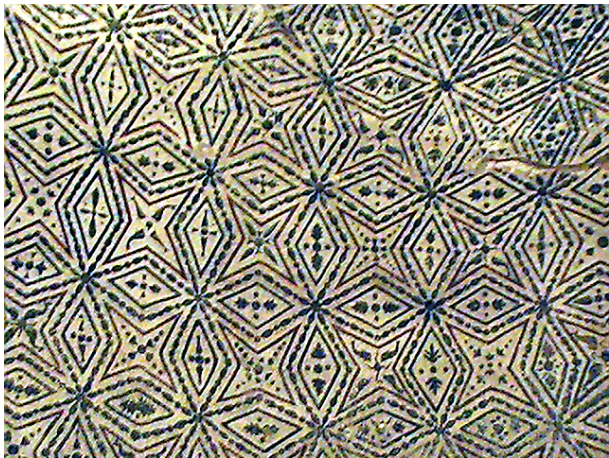




Roman



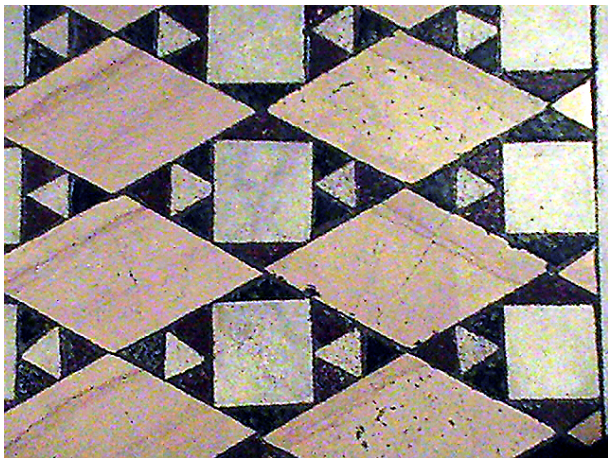
Roman



Roman



Roman



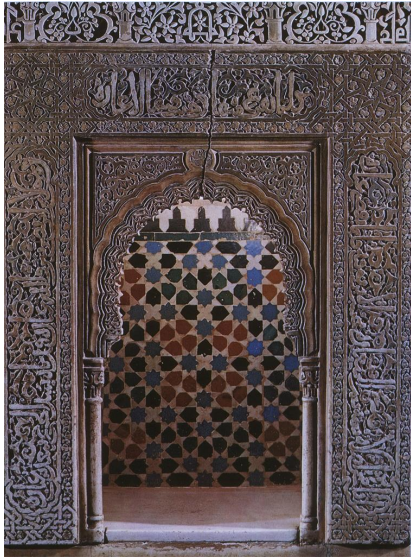
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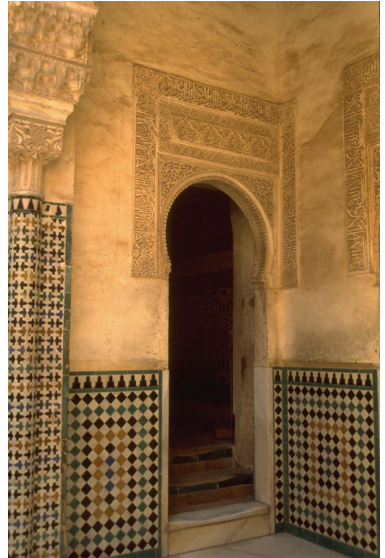
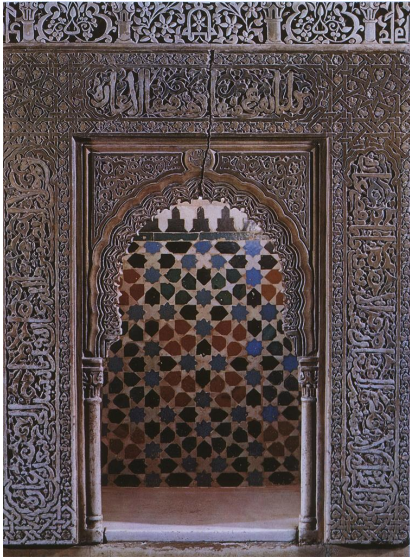
Roman



Alhambra, Spain, c. 1340





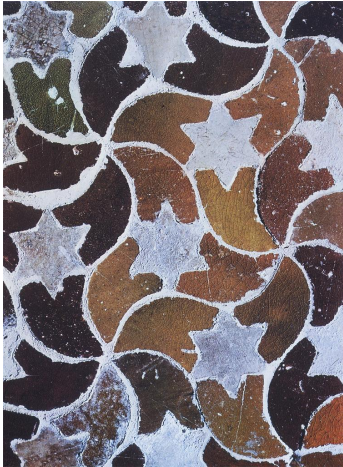


Alhambra, Spain, c. 1340

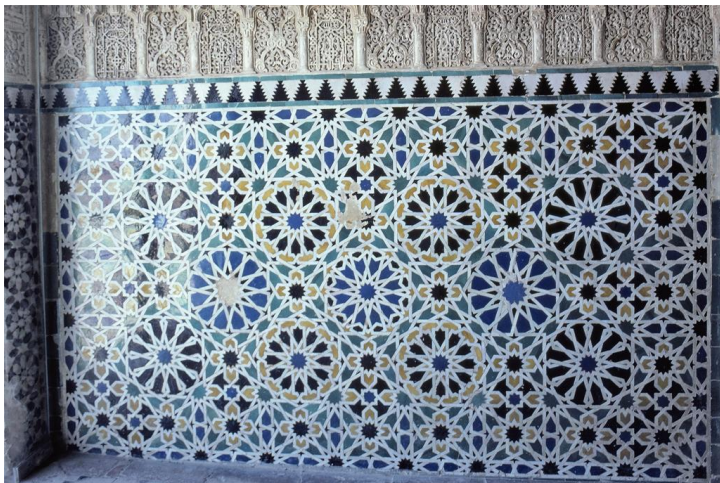


Alhambra, Spain, c. 1340

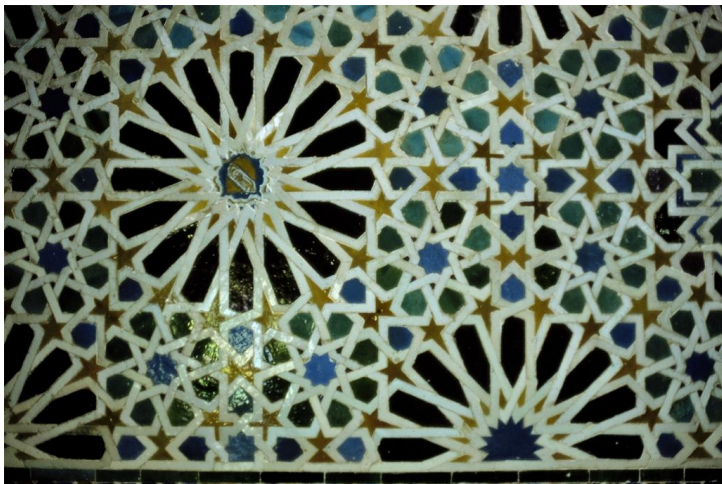




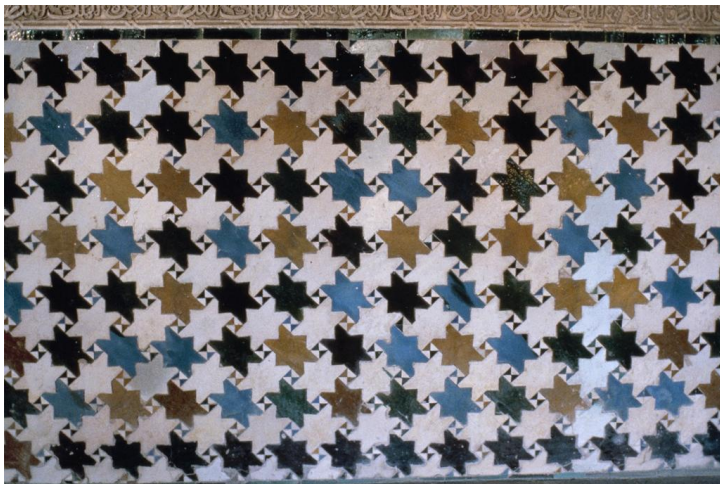
Alhambra, Spain, c. 1340



Alhambra, Spain, c. 1340



Alhambra, Spain, c. 1340

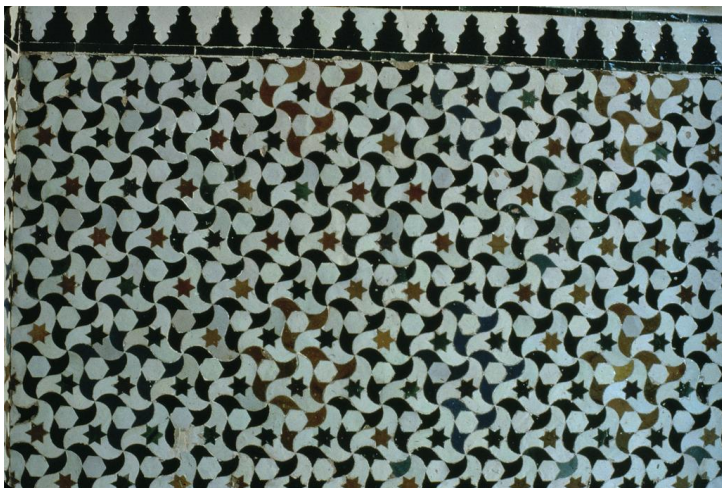


Alhambra, Spain, c. 1340



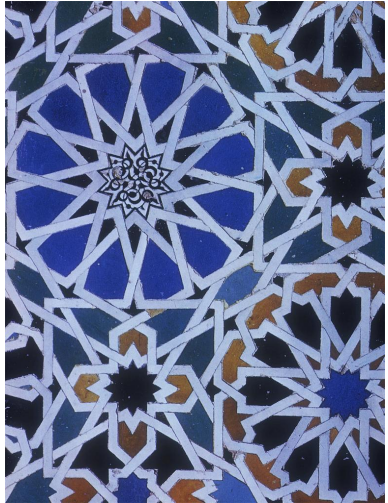
Alhambra, Spain, c. 1340



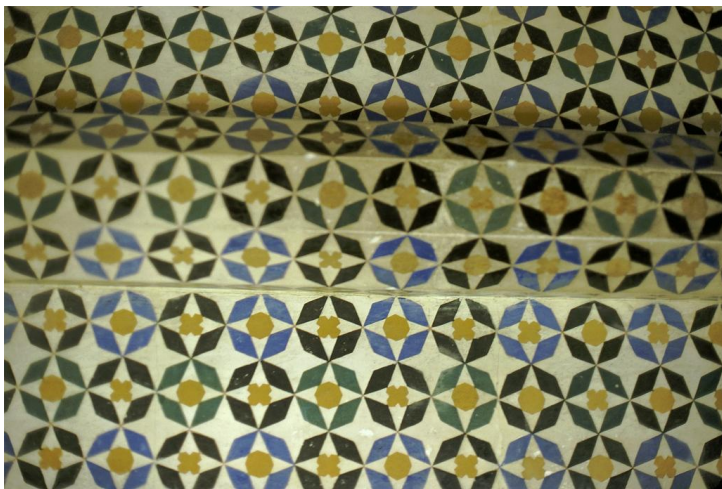


Alhambra, Spain, c. 1340





Alhambra, Spain, c. 1340



Alhambra, Spain, c. 1340

ACCA TEMPLE MOSQUE. A. A. O. N. M. S., RICHMOND, VA.



Richmond Landmark Theater

1926

ACCA TEMPLE MOSQUE. A. A. O. N. S., RICHMOND, VA.



Richmond Landmark Theater

1926

ACCA TEMPLE MOSQUE. A. A. O. N. S., RICHMOND, VA.



Richmond Landmark Theater

1926





Richmond Landmark Theater

1926





Richmond Landmark Theater

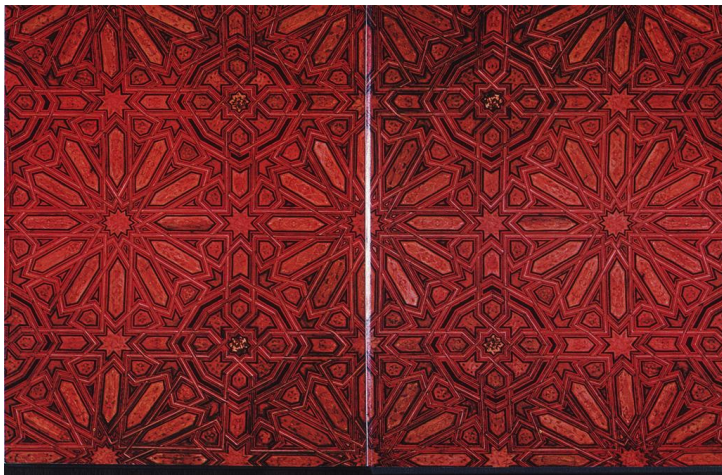
1926



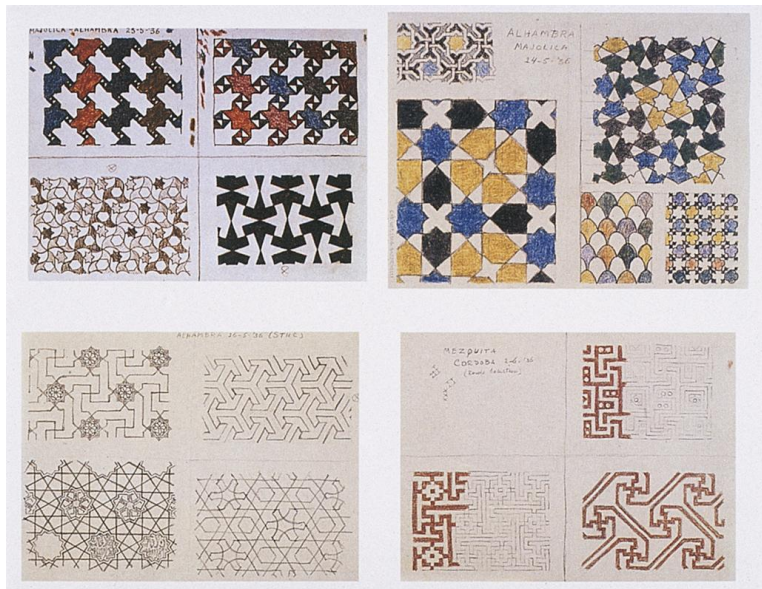
Richmond Landmark Theater

1926



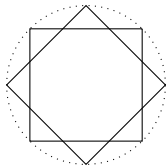


Alhambra, Spain, c. 1340

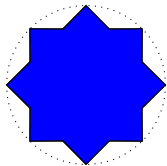


M.C. Escher, *Study of Moorish designs from Alhambra and La Mezquita*. 1936

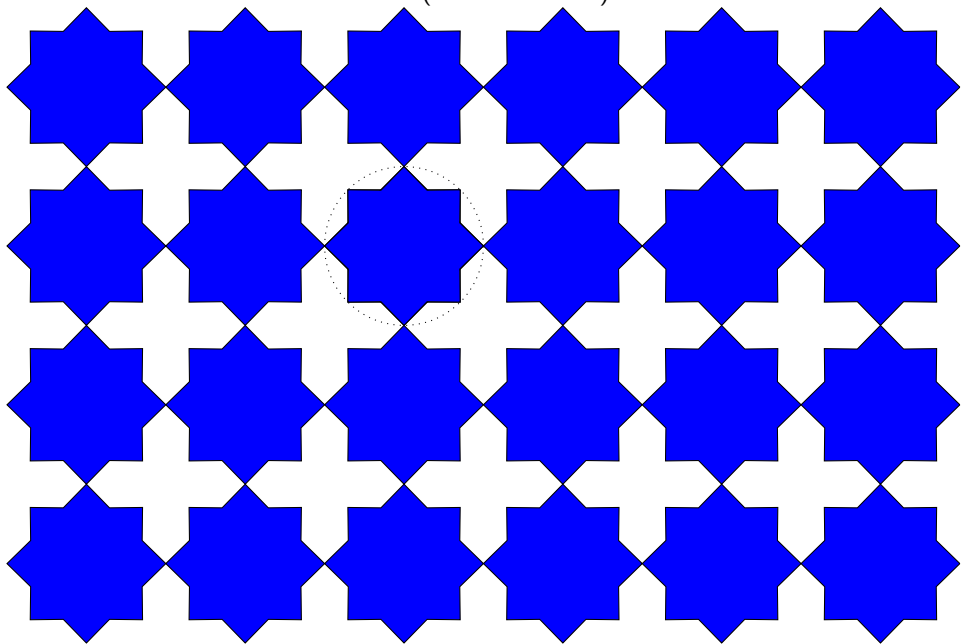
# Khatem Sulemani (Solomon's Seal)



# Khatem Sulemani (Solomon's Seal)



Khatem Sulemani (Solomon's Seal)



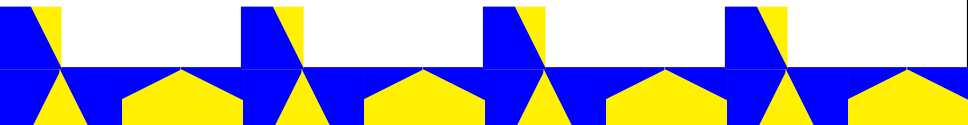
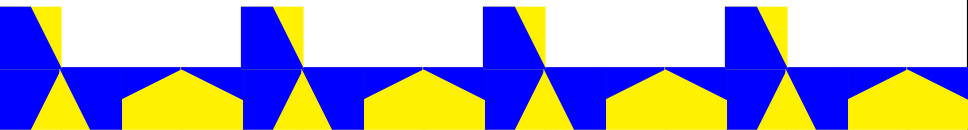
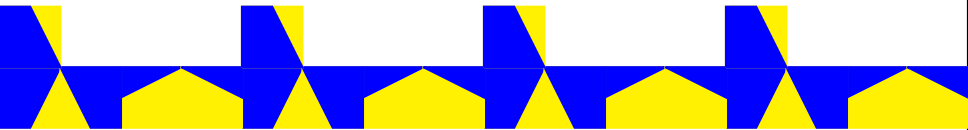


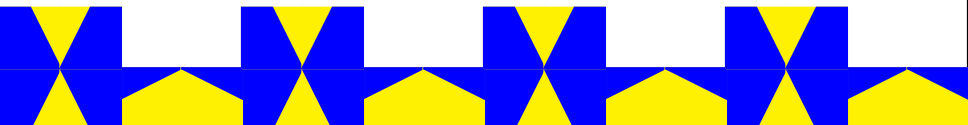
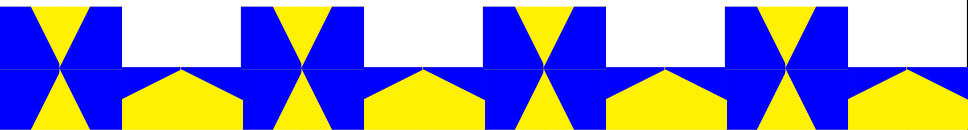
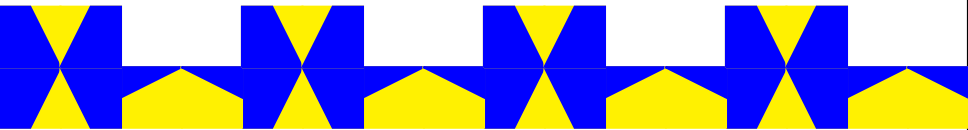


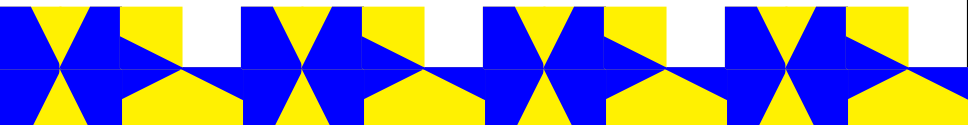
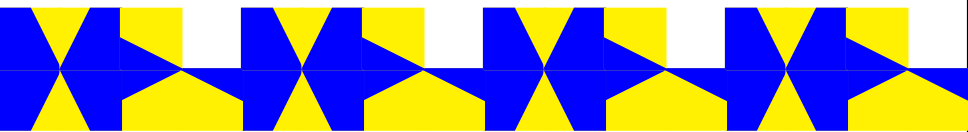
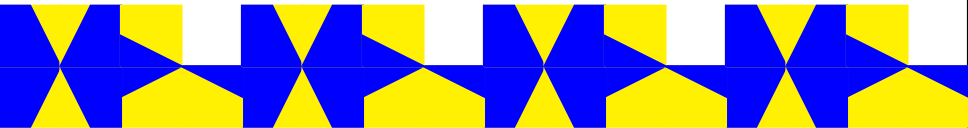


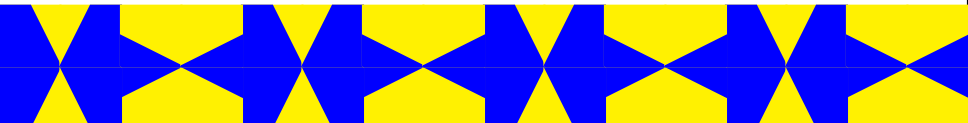
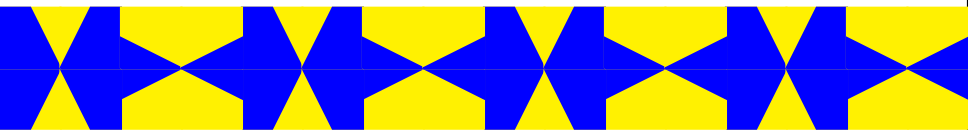
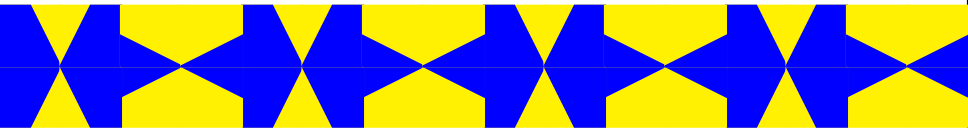


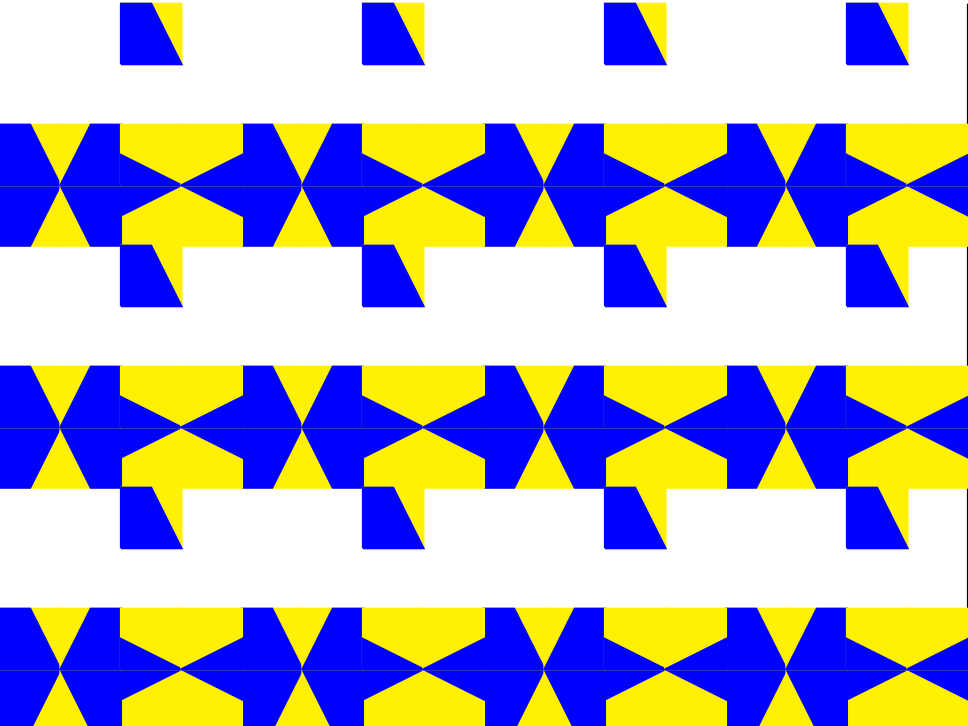




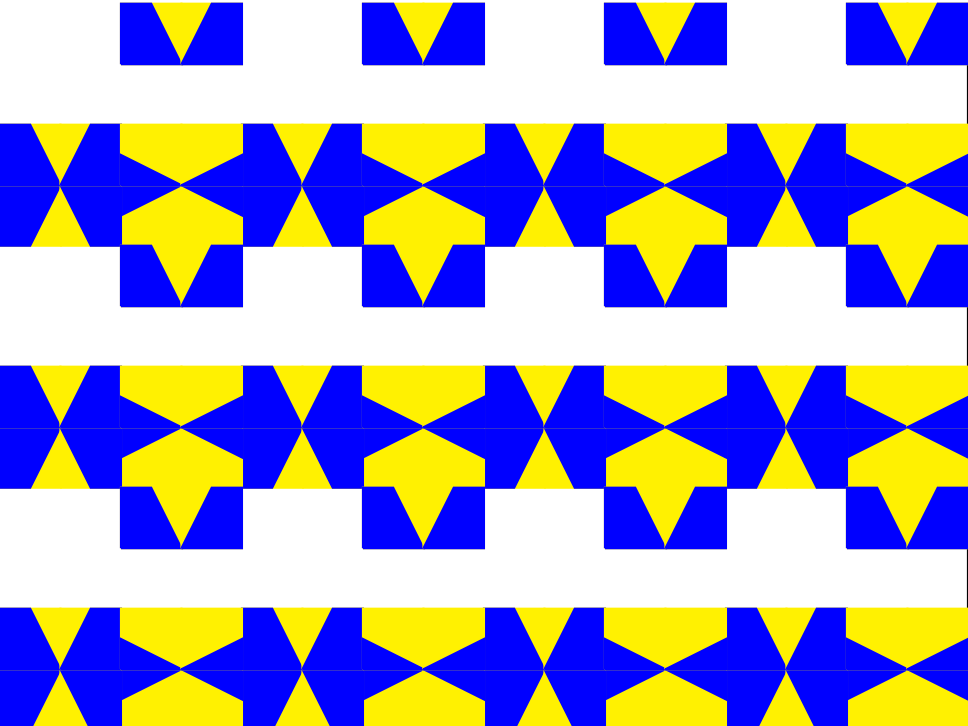


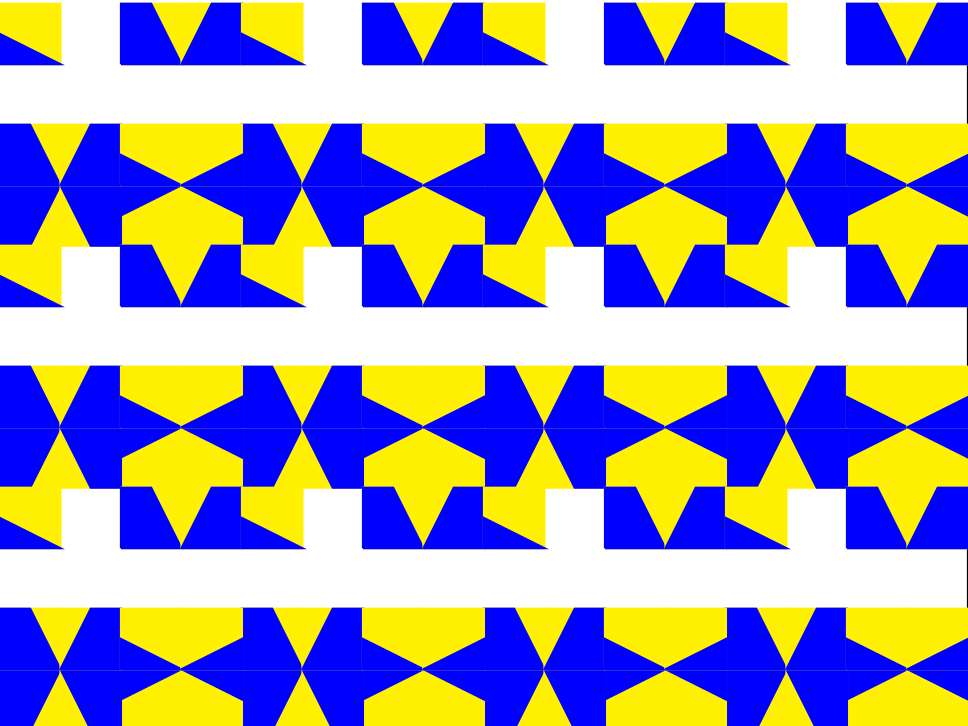


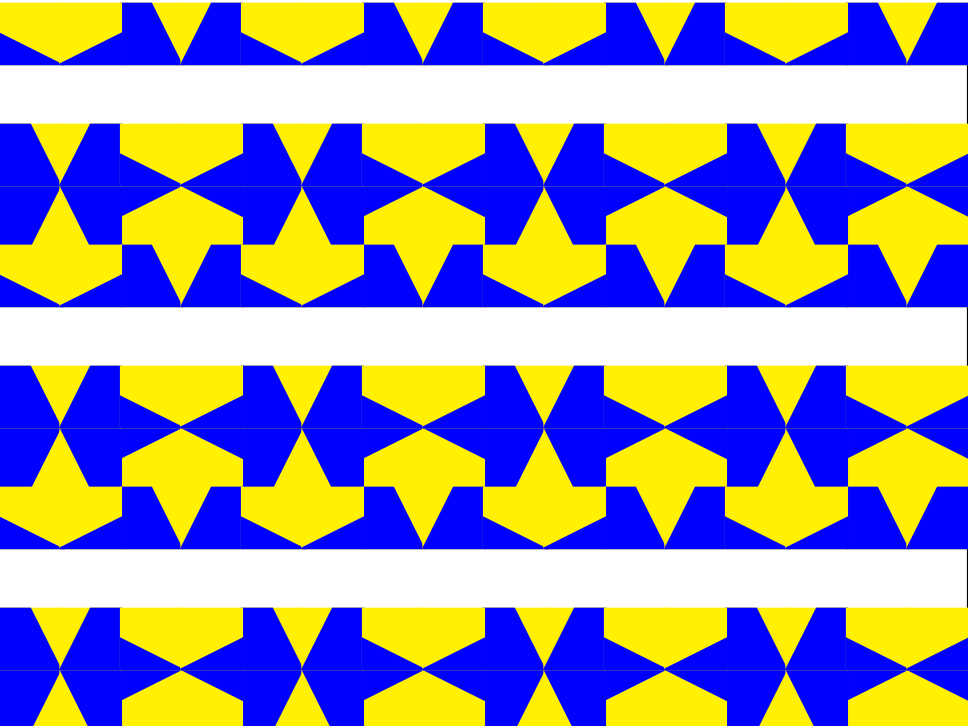


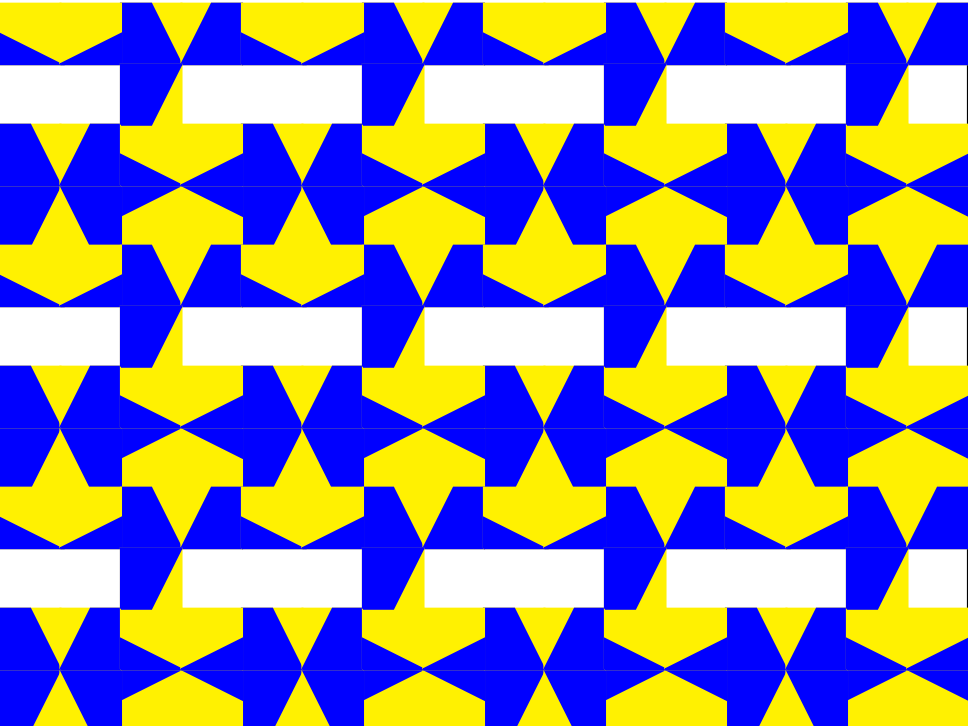


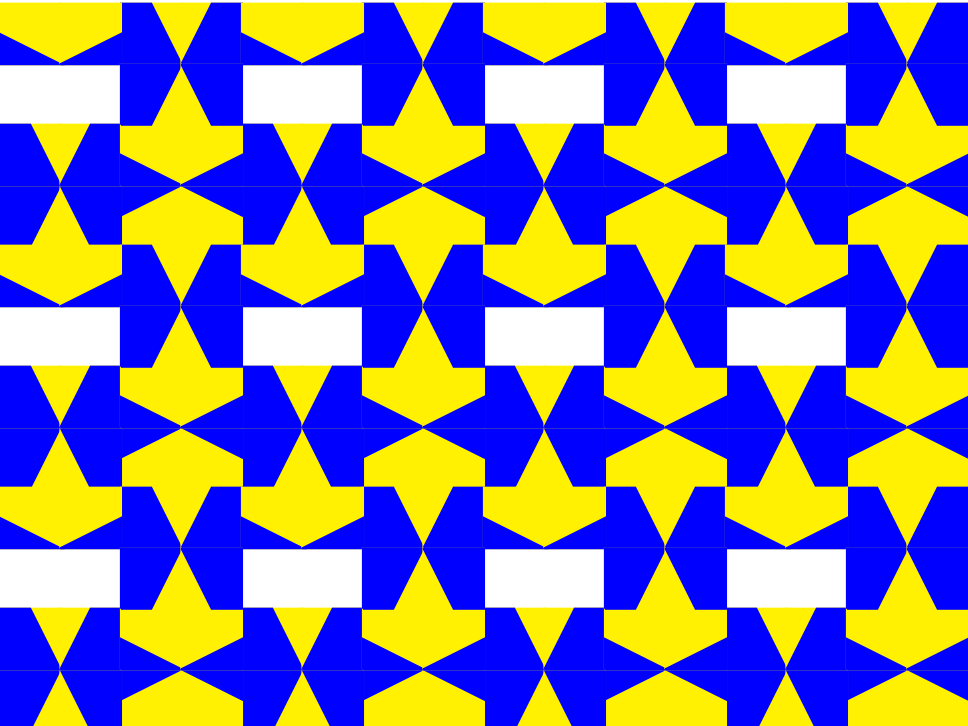


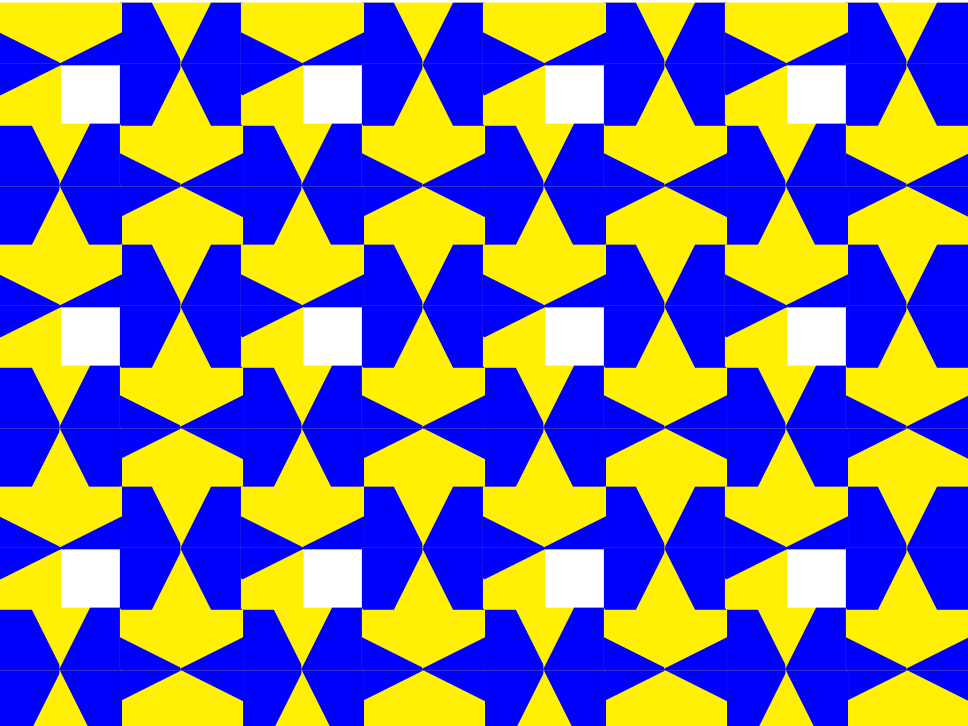


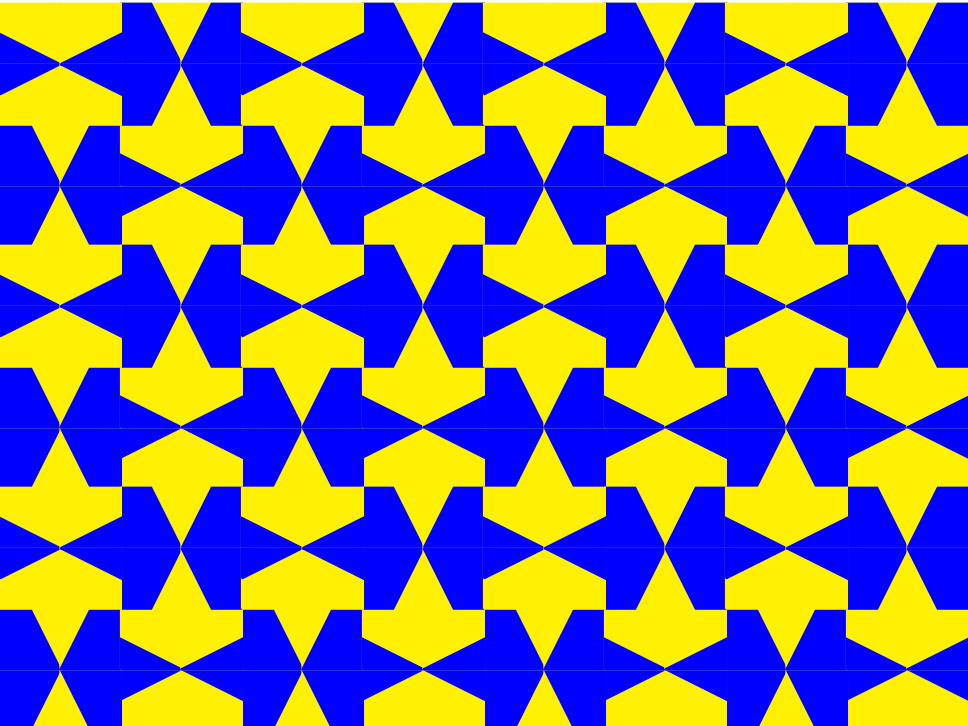












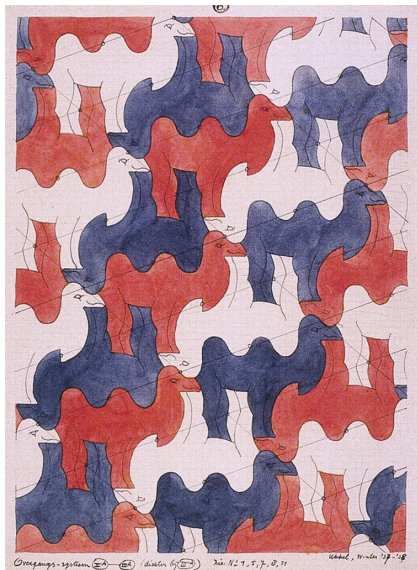


M.C. Escher, *Lizard Design*. 1937





M.C. Escher, *Horse Design*. 1937



M.C. Escher, *Camel Design*. 1937



M.C. Escher, *Lizard Design*. 1942



M.C. Escher, *Lizard Design*. 1949



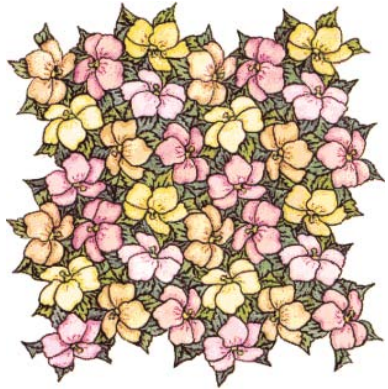
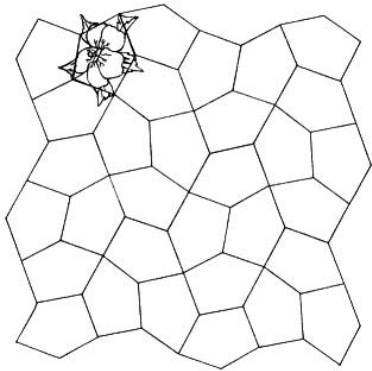
M.C. Escher, *Bulldog Design*. 1955



M.C. Escher



M.C. Escher



Tessellation by Marjorie Rice



## Outline of Course

Tuesday	Thursday
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## Outline of Course

Tuesday	Thursday
<b>23.</b>	<b>25. Introduction</b>

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Tuesday	Thursday
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<b>30.</b> Frieze Patterns	<b>2.</b> Frieze Patterns

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<b>30.</b> Frieze Patterns	<b>2.</b> Frieze Patterns
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<b>30.</b> Frieze Patterns	<b>2.</b> Frieze Patterns
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<b>14.</b> Symmetry in Tessellations	<b>16.</b> Reading Day

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<b>14.</b> Symmetry in Tessellations	<b>16.</b> Reading Day
<b>21.</b> Symmetry in Tessellations	<b>23.</b> Non-periodic Tessellations

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<b>14.</b> Symmetry in Tessellations	<b>16.</b> Reading Day
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<b>28.</b> Crit of final projects	<b>30.</b> (MATH 123 Begins)

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<b>21.</b> Symmetry in Tessellations	<b>23.</b> Non-periodic Tessellations
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<http://www.people.vcu.edu/~rhammack/Math122/>