

THE UNIVERSITY OF MANITOBA

Dec 13, 2005

Paper #221

Departments & Course Numbers: 136.102/054.02

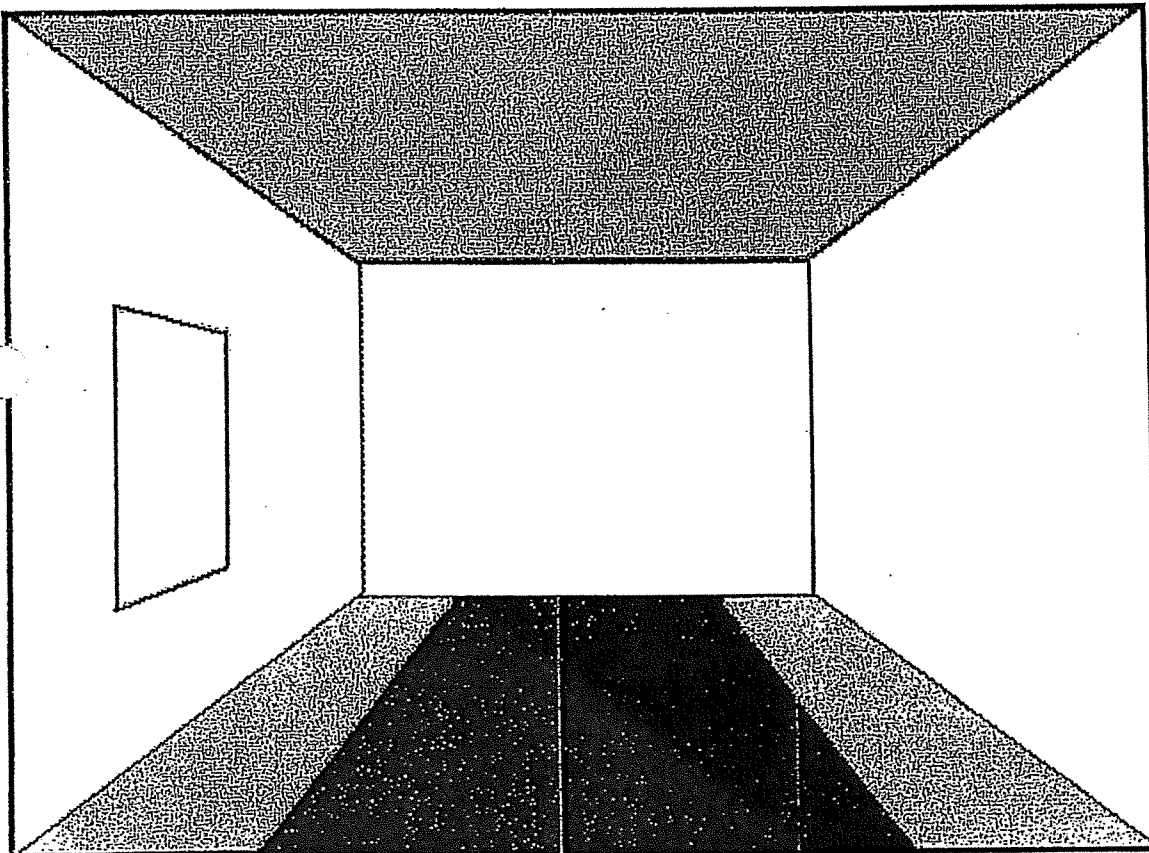
Examination: Math in Art

Examiners: Dr. R. Padmanabhan and Prof. T. Lysenko

Final Examination

Time 2 Hours

6. The museum room given below is drawn in perspective.
Locate all the vanishing points in the diagram
Draw a table in the middle of the carpeted floor.
Add a window on the right side of the wall corresponding to the one on the left.
All the drawings should be drawn consistent with the given perspective.



UNIVERSITY OF MANITOBA

DATE: December 12, 2009

FINAL EXAMINATION

PAPER # 182\183

PAGE: 6 of 8

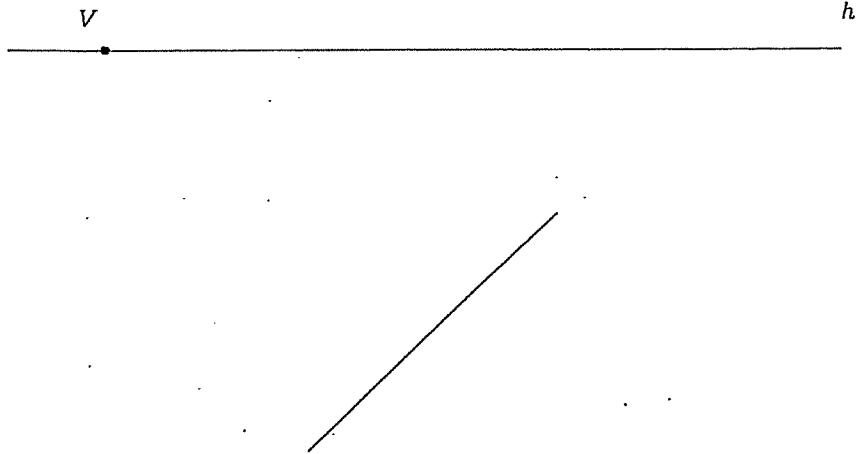
COURSE: MATH\FA 1020

TIME: 2 hours

EXAMINATION: Math in Art

EXAMINER: M. Davidson

- [9] 6. Below is depicted a portion of a drawing of a square in 2-point perspective. One side of the square is given, along with one of the vanishing points V (not the vanishing point associated with the given side), and the horizon line h .
- (a) Indicate the 2nd vanishing point with symbol V_2 . Construct the other three sides of the perspective square.
- (b) Divide the square into 4 smaller squares (i.e. a 2×2 grid).



THE UNIVERSITY OF MANITOBA

April 20, 2005

PAPER NO: 402

DEPARTMENT & COURSE NO: 136.102/054.102

EXAMINATION: Math in Art

EXAMINERS: S. Kalajdziewski, R. Padmanabhan

FINAL EXAMINATION

PAGE 6 of 9

TIME: 2 HOURS

7. You are given (see the picture) the horizon line, two vanishing points VP1 and VP2 and two opposite corners A and B of a square (in perspective drawing).



A
o

B^o

- (a) Construct a two point perspective drawing of the (rest of the) square (with A and B being its opposite corners).
- (b) Subdivide (tile) the square constructed in (a) into 4 equal smaller squares (in the perspective drawing done in part (a)).

5 + 5 = 10

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PAGE: 5 of 8

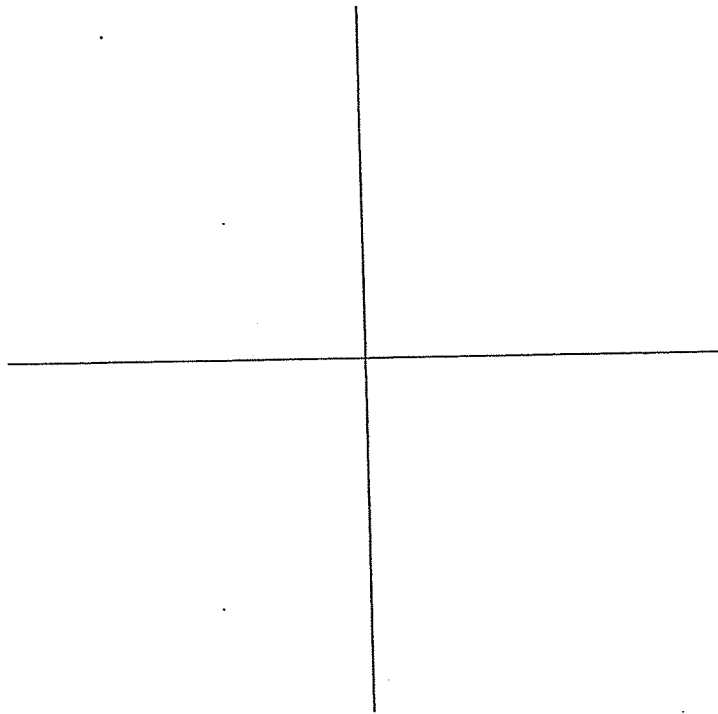
COURSE: MATH\FA 1020

TIME: 2 hours

EXAMINATION: Math in Art

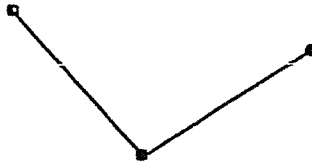
EXAMINER: M. Davidson

- [7] 5. On the following axes, form a star by constructing the tangents a parabola in each corner. Each parabola should have 4 tangents. (You may wish to use the space at the bottom to find the appropriate divisions of the line. It is not necessary, however it will make your work neater.)



7. The illustration below shows the horizon h and a two-point perspective drawing of two adjacent edges of a square.
- (a) Find the two vanishing points, and construct in perspective the remaining two edges of the square.
- (b) Subdivide the perspective image of the square in part (a) into four equal smaller squares.

h



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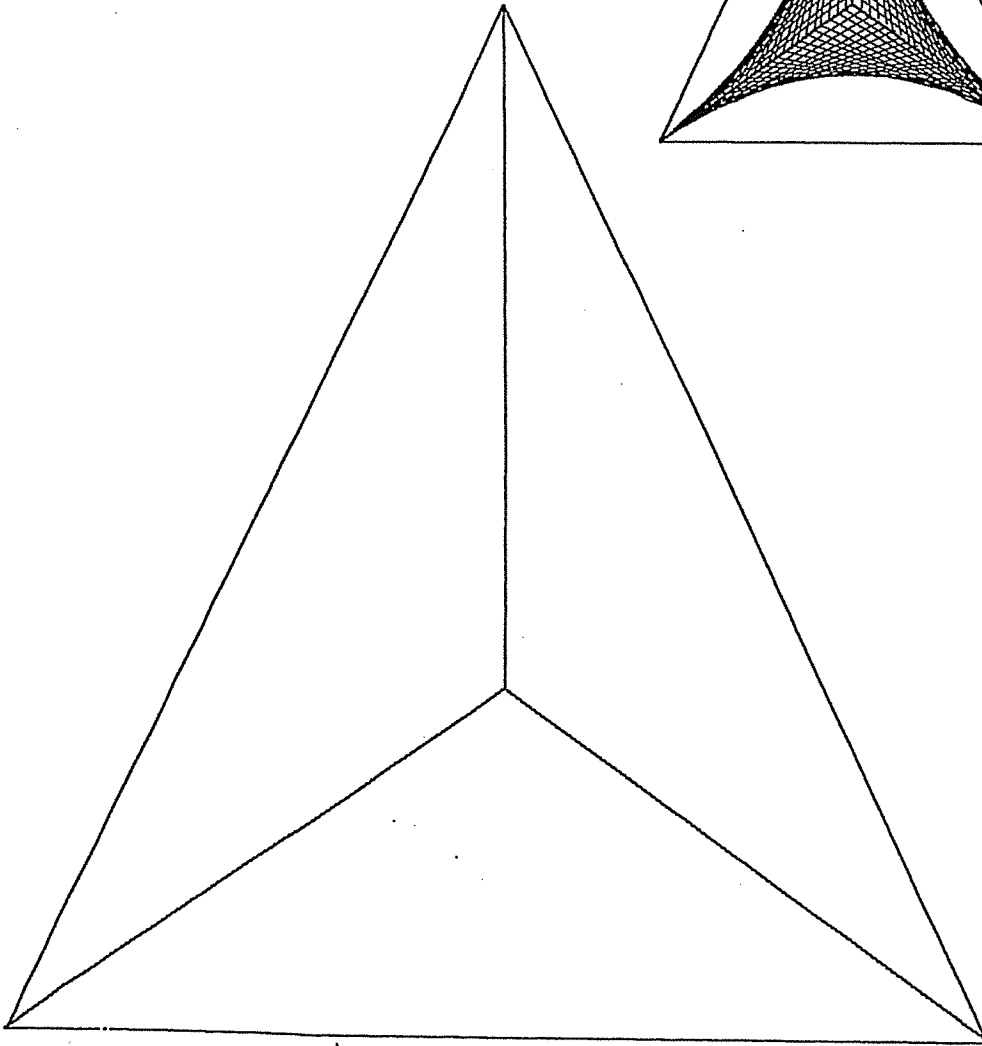
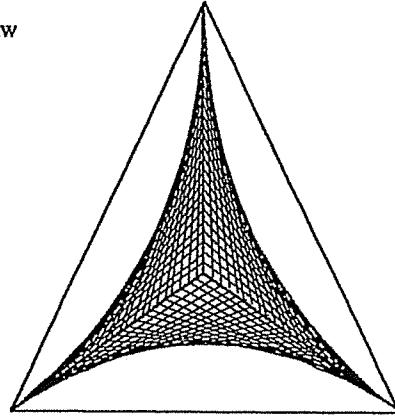
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8. Using the technique of drawing straight lines as tangents, draw three parabolas in the space given below to create a shape as shown on the right side.



8. Use tangents to sketch the upper part of the ellipse inscribed in the rectangle shown below.

