054/136.	102 Math	In Art	Mid-Term	Exam.	20	October	2005
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Dr. R. Padmanabhan/Prof T. Lysenko

page 4 of 5 Time 75 minutes

5. Three points given below lie on a circle but unfortunately the circle itself got erased. Reconstruct the circle (in other words, find the centre and the radius of the circle).

Give a brief description of your method for finding the centre of the circle.

### UNIVERSITY OF MANITOBA

DATE: February 25, 2010

MIDTERM PAGE: 1 of 5

COURSE: MATH 1020

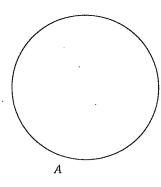
TIME: 70 minutes

EXAMINATION: Math in Art

EXAMINER: M. Davidson

Important: "Construct" means "construct using an unmarked ruler and compass." The phrase "unmarked ruler" stands for any ruler that may be used only as a straight edge to draw straight line segments. When you use a compass, show the (intermediate) circular arcs you draw in your constructions (do not erase them). Use words to describe BRIEFLY what you have done.

[6] 1. (a) Find (construct) the center of the circle A given below. Construct a circle centered at point P that touches circle A in exactly one point.



[4] (b) Draw a line that passes through the point B and intersects that line  $\ell$  at an angle of 60 degrees.



# FA/MATH 1020 Math In Art, Mid\_Term Exam, Oct 18, 2007

Name	STUDENT ID#				
		Time 75 minute			
<ol> <li>You are given a line segment AB. Divide this line segment into five equal parts be and compass. Give a brief description of your method.</li> </ol>					
***************************************		AN AND AND AND AND AND AND AND AND AND A			
2. Three points given held	ow lie on a circle but unfortunately the circle it	self got erased.			
Reconstruct the circle	using the ruler and compass techniques. Find the	e centre and the radius			

0

of the circle)

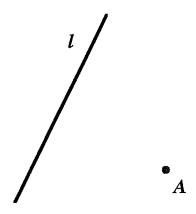
### 136.102 Math in Art Midterm Exam February 21, 2006



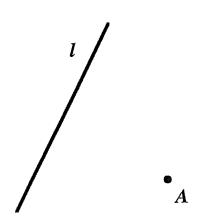
Name:	Student Number	
~ 1		

Important: "Construct" means "construct using an unmarked ruler and a compass". The phrase "unmarked ruler" stands for any ruler that may be used only as a straight edge to draw straight line segments. When you use a compass, show the (intermediate) circular arcs you draw in your constructions (do not erase them). Use words to describe BRIEFLY what you have done.

1. (a) Construct the line passing through the point A and parallel to the given line l.



(b) Construct a line passing through the given point A (in the illustration shown below) and intersecting the given line l at the angel of  $45^{\circ}$ .



#### UNIVERSITY OF MANITOBA

DATE: October 22, 2009

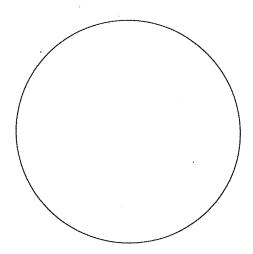
MIDTERM

PAGE: 1 of 5 TIME: 70 minutes

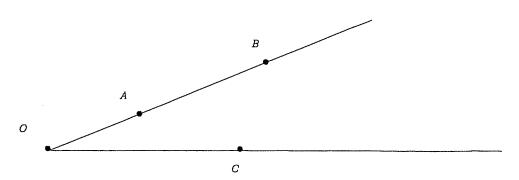
COURSE: MATH 1020 EXAMINATION: Math in Art EXAMINER: M. Davidson

Important: "Construct" means "construct using an unmarked ruler and compass." The phrase "unmarked ruler" stands for any ruler that may be used only as a straight edge to draw straight line segments. When you use a compass, show the (intermediate) circular arcs you draw in your constructions (do not erase them). Use words to describe BRIEFLY what you have done.

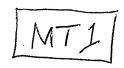
[5] 1. (a) Find (construct) the center of the circle given below. Construct a hexagon in the circle.



[5] (b) Given the diagram below; If OA has length 1, OB has length n and OC has length m, find the point D on OC such that OD is length mn.



## Math 1020 Math in Art Midterm Exam, February 28, 2008



ľ	viidleriii Exam, February 20, 2000
Name:	Student Number:
1. max=7 2. max=6 3. max=9 4. max=11 5. max=7	Important: "Construct" means "construct using an unmarked ruler and a compass". The phrase "unmarked ruler" stands for any ruler that may be used only as a straight edge to draw straight line segments. When you use a compass, show the (intermediate) circular arcs you draw in your constructions (do NOT erase them). Use words to describe BRIEFLY what you have done.
a corner at O and over	instruct (using an unmarked ruler and a compass) an angle of 30° with the given semi-line. sect the angle constructed in part (a) of this exercise.
(Do not forge	t to briefly describe your steps.)
0	
56 113 46	

[6 points] 2. Construct one of the two golden cuts of the line segment given below.