

A

# FINAL EXAM RUBRIC

NAME: Marit Bjornlund

W : 9 AM

150

## 1) Statements of Definitions and Theorems (40%)

### i. Definitions (20%):

- o (1c) Too old, forgot Homotopy
- o (3c) Good
- o ( )
- o ( )
- o ( )

### ii. Theorems (20%):

- 3c (8th) Great
- o ( )
- o ( )
- o ( )
- o ( )

## 2) Questions (20%)

- o (3f) Good
- o (3h) Good
- o ( )
- o ( )
- o ( )

## 3) Computations (40%)

- o EASY: (3m) Good

- o MEDIUM: (20) Some help required. Didn't recall corr w/ sheets

- o HARD: (35) Perfect

A

## FINAL EXAM RUBRIC

NAME: Alex Semendinger

W: 10 am

### 1) Statements of Definitions and Theorems (40%)

#### i. Definitions (20%):

- 3 ○ (3c) Good
- 2 ○ (3b) Good
- (2c)
- ( )
- ( )

150

#### ii. Theorems (20%):

- 0 ○ (1e) Close, 0/1 instead of 1/2 cells
- 4 ○ (3e) Good
- ( )
- ( )
- ( )

### 2) Questions (20%)

- 7 ○ (2d) Great
- 8 ○ (2h) Great
- ( )
- ( )
- ( )

### 3) Computations (40%)

- 5 ○ EASY: (3m) Great

- 1 ~~W~~ ○ MEDIUM: (1m) Great

- 6 ○ HARD: (3n) Perfect

B+

# FINAL EXAM RUBRIC

NAME: Haley Lescinsky

W: 11

## 1) Statements of Definitions and Theorems (40%)

119

### i. Definitions (20%):

31.2

- 1 ○ (3f) OK
- 6 ~~4~~ ○ (20) messed up defn
- 14 ○ (3i) OK
- ( )
- ( )

25

### ii. Theorems (20%):

- 5.5 ○ (3f) X couldn't recall the complex
- ( )
- ( )
- ( )
- ( )

20

## 2) Questions (20%)

- 7 ~~5~~ ○ (2e) ✓
- 8 ~~5~~ ○ (2f) X couldn't remember quotient
- 5 ○ (3i) X missed reduced, etc
- ( )
- ( )

20

## 3) Computations (40%)

- 2 ○ EASY: (3h) OK, Missing Details ~~27~~ 27

- 3 ○ MEDIUM: (3g) OK, didn't know what well defined was 27

- 4 ~~10~~ ○ HARD: (2e) ~~10~~ Doesn't know 0

Computation : OK

FINAL EXAM RUBRIC

NAME: Ashay Patel

W: 1

A

1) Statements of Definitions and Theorems (40%)

i. Definitions (20%):

- 4 ○ (3c) ✓
- 1 ○ (2c) ✓✓
- ( )
- ( )
- ( )

ii. Theorems (20%):

- 7 ~~1~~ ○ (3d) ✓
- ( )
- ( )
- ( )
- ( )

2) Questions (20%)

- 2 ○ (2d) ✓
- 6 ○ (3k) ✓✓
- ( )
- ( )
- ( )

3) Computations (40%)

- 5 ○ EASY: (3d)  $\mathbb{RP}^2$  ✓

- 8 ~~1~~ ○ MEDIUM: (3p) ✓

- 3 ○ HARD: (2l) VG

Excellent in  
every  
Question

# FINAL EXAM RUBRIC

A-

NAME: Andrew Barry

W:Z

## 1) Statements of Definitions and Theorems (40%)

### i. Definitions (20%):

- 2 ○ (3f) ✓
- 1 ○ (3d)
- 8 ○ (2d)
- ( )
- ( )

### ii. Theorems (20%):

- 4 ○ (3t) ✓
- 6 ○ (2t) ✓
- ( )
- ( )
- ( )

145

## 2) Questions (20%)

- 1.5 ○ (3e) ✓
- 9 ○ (2d)
- ( )
- ( )
- ( )

OK, didn't cite  $\exists X$  s.t.  $\pi_1(X) = G$

## 3) Computations (40%)

- 7 ○ EASY: (3k) ✓ Great

3 ○ MEDIUM: (3g) OK, didn't remember  
for  $G$

- 5 ○ HARD: (3w) ✓

# FINAL EXAM RUBRIC

A-

NAME: Chetan Patel

W: 4

## 1) Statements of Definitions and Theorems (40%)

1.35

### i. Definitions (20%):

- 1.  $\circ$  (2c) ✓
- 4.  $\circ$  (3c) ✓
- $\circ$  ( )
- $\circ$  ( )
- $\circ$  ( )

20%

### ii. Theorems (20%):

- 7.  $\circ$  (3q) ✓
- $\circ$  ( )
- $\circ$  ( )
- $\circ$  ( )
- $\circ$  ( )

20%

## 2) Questions (20%)

- 2.  $\circ$  (2d) OK Didn't cite  $\exists X$  s.t.  $\pi_1(X) = G$  15%
- 5.  $\circ$  (3j) ✓
- 8.  $\circ$  (3r) ✓
- $\circ$  ( )
- $\circ$  ( )

## 3) Computations (40%)

- 6.  $\circ$  EASY: (3m) ✓
- 3r ✓

- 3.  $\circ$  MEDIUM: (2l)

OK - ~~25~~ 30%

Quite problematic, 2-sheeted was cosets v  
Not using normality of index 2,  
etc.

- 9.  $\circ$  HARD: (3o) ✓

FINAL EXAM RUBRIC

A

NAME: Molly Knoedler

R: 11

1) Statements of Definitions and Theorems (40%)

i. Definitions (20%):

- 1 ○ (1a) OK
- 3 ○ (1j) OK
  - ( )
  - ( )
  - ( )

ii. Theorems (20%):

- 5 ○ (3g) Good
- 7 ○ (3d) Good
  - ( )
  - ( )
  - ( )

2) Questions (20%)

- 2 ○ (1b) OK
  - ( )
  - ( )
  - ( )
  - ( )

3) Computations (40%)

- 6 ○ EASY: (3r) Great

- 4 ○ MEDIUM: (1m) OK, some hesitation

- 8 ○ HARD: (3n) Good!

# FINAL EXAM RUBRIC

NAME: Henry Lane

R: 1

B+

136

## 1) Statements of Definitions and Theorems (40%)

### i. Definitions (20%):

- 1 ○ (2c) ... ?
- 3 ○ (2e) ✓
- 6 ○ (3f) ✓
- ( )
- ( )

### ii. Theorems (20%):

- 4 ○ (2j1) ✓
- 1 ○ (2j2) OK
- 8 ○ (3t) Meh
- ( )
- ( )

## 2) Questions (20%)

- ~~2 ○ (2d)~~
- ( )
- ( )
- ( )
- ( )

## 3) Computations (40%)

- 5 ~~4~~ ○ EASY: (2k) Meh

- 7 ○ MEDIUM: (3g) Ker ✓

$$f_{\#} \circ d = d \circ f_{\#}$$

Im OK

- 9 ○ HARD: (3u)

With some coaxing, OK



# FINAL EXAM RUBRIC

NAME: Trekin Corsinglia

R:Z

B+

## 1) Statements of Definitions and Theorems (40%)

### i. Definitions (20%):

- 1. (3b) ✓
- 2. (3c) ✓
- ( )
- ( )
- ( )

### ii. Theorems (20%):

- 4. (3t) ✓
- 6. (3q)  $(X \setminus Z, A \setminus Z) \hookrightarrow (X, A)$  ✓
- ( )
- ( )
- ( )

80%

125

## 2) Questions (20%)

- 7. (2h) ✓
- 9. (2d) ✓
- ( )
- ( )
- ( )

## 3) Computations (40%)

- 3. ○ EASY: (3d) ~~RP<sup>2</sup>~~  $\mathbb{R}P^2$

a-b, c

OK, stumbling

- 8. ○ MEDIUM: (2l)

Didn't get } ?  
to it

- 5. ○ HARD: (3n)

OK, A lot of help required  
Questionable logic

$\mathbb{Z}^2/\mathbb{Z}$   $\nrightarrow \mathbb{Z}$   $\nrightarrow \mathbb{Z}$   $\nrightarrow \mathbb{Z}$   
depends on embedding

-10%

-10%

$\frac{1}{2}$

# FINAL EXAM RUBRIC

B-

NAME: Michael Zuo

R: 3

## 1) Statements of Definitions and Theorems (40%)

### i. Definitions (20%):

- 1 ○ (30) Good pair ✓ Doesn't recall  $(X, A)$
- ( )
- ( )
- ( )
- ( )

70%

15%

### ii. Theorems (20%):

- 2 ○ (30) ok mixed  $X \leftrightarrow A$
- 5 ○ (30)  $X = U \cup V$  didn't know the sequence  $X$
- 7 ○ (10) Free Product? No relations...
- ( )
- ( )

10%

## 2) Questions (20%)

- 4 ○ (30) ✓
- ( )
- ( )
- ( )
- ( )

20%

## 3) Computations (40%)

- 8 ○ EASY: (20) How can you compute  $\pi_1(\bigvee_i X_i)$ ?

Fine

10%

- 3 ○ MEDIUM: (30) Some help, 5-lemma? Then got it

7.5%

- 6 ○ HARD: (30)

OK, Got it with help on maps and exactness

7.5%

(+)

# FINAL EXAM RUBRIC

NAME: Emilia Welch

~~100%~~ F: 10

## 1) Statements of Definitions and Theorems (40%)

70%

### i. Definitions (20%):

- 1 ○ (3c) ✓
- ( )
- ( )
- ( )
- ( )

### ii. Theorems (20%):

- 2 ○ (3g) ~~Bad~~ Good
- 5 ~~4~~ ○ (3l) meh
- 7 ○ (2j1)
- 8 ○ (2j2)

$\mathbb{Z} \leq \mathbb{R}$

## 2) Questions (20%)

- 4 ○ (3e) Bad
- ( )
- ( )
- ( )
- ( )

-10%

## 3) Computations (40%)

- 3 ○ EASY: (10r)

Bad, needs help, doesn't know excision

-10%

- 6 ○ MEDIUM: (3m) Using LES

-10%

- 9 ○ HARD: (20) Didn't get to...

FINAL EXAM RUBRIC

NAME: Weitao Zhu

F: 11

A

1) Statements of Definitions and Theorems (40%)

i. Definitions (20%):

- 1 ○ (3c) ✓
- 7 ○ (1c) ✓
- 8 ○ (1d) ✓
- ( )
- ( )

ii. Theorems (20%):

- 3 ○ (3d) ✓
- 9 ○ (1d)
- ( )
- ( )
- ( )

100%

2) Questions (20%)

- 2 ○ (3e) ✓
- 5 ○ (3t) ✓
- ( )
- ( )
- ( )

3) Computations (40%)

- 4 ○ EASY: (3m) ✓

- 10 ○ MEDIUM: (1m) ✓

- 6 ○ HARD: (5u) ✓

A+

## FINAL EXAM RUBRIC

NAME: Daishiro Nishida

F:1

### 1) Statements of Definitions and Theorems (40%)

#### i. Definitions (20%):

- 1 ○ (1e) ✓
- 4 ○ (3c) ✓
- 5 ○ (3k) ✓
- ( )
- ( )

#### ii. Theorems (20%):

- 6 ○ (3g) ✓
- 8 ○ (3t)
- ( )
- ( )
- ( )

### 2) Questions (20%)

- 2 ○ (1f) ✓
- ( )
- ( )
- ( )
- ( )

### 3) Computations (40%)

- 7 ○ EASY: (3r) ✓

- 3 ○ MEDIUM: (1p) ✓

- 9 ○ HARD: (3u)

E

133

## FINAL EXAM RUBRIC

NAME: Gus Beirne

F:2

### 1) Statements of Definitions and Theorems (40%)

85%

#### i. Definitions (20%):

- 1 ○ (3c) ✓
- 7 ○ (1c)
- 8 ○ (1d) slow
- ( )
- ( )

#### ii. Theorems (20%):

- 3 ○ (3e) OK ✓
- 9 3 ○ (1e)
- ( )
- ( )
- ( )

### 2) Questions (20%)

- 2 ○ (3e) ✓
- 5 ○ (3t)
- ( )
- ( )
- ( )

### 3) Computations (40%)

- 4 ○ EASY: (3m) meh

- 10 ○ MEDIUM: (1m) Not quite to

- 6 ○ HARD: (3m) Close

FINAL EXAM RUBRIC

A

NAME: Michael Curran

F: 3

1) Statements of Definitions and Theorems (40%)

i. Definitions (20%):

- 1 ○ (38) ✓
- 3 ○ (3k) ✓
- ( )
- ( )
- ( )

95%

ii. Theorems (20%):

- 6 ○ (3t) ✓
- 7 ○ (2j1) ✓
- 8 ○ (2j1) ✓
- ( )
- ( )

2) Questions (20%)

- 5 ○ (3e) ✓
- ( )
- ( )
- ( )
- ( )

3) Computations (40%)

- 2 ○ EASY: (3g) ✓

- 4 ○ MEDIUM: (3o) ✓

- 9 ○ HARD: (3l) very little help required

-5%

FINAL EXAM RUBRIC

C-

NAME: Lev Schechter

F: 4

1) Statements of Definitions and Theorems (40%)

i. Definitions (20%):

- 1 ○ (1c) ✓
- 4 ○ (3c) ✗
- 5 ○ (3k) ✓
- ( )
- ( )

-5%

ii. Theorems (20%):

- 6 ○ (3q) ✓
- 8 ○ ~~(3k)~~ ✗
- (3g)
- ( )
- ( )

-5%

2) Questions (20%)

- 2 ○ (1f) ✓
- ( )
- ( )
- ( )
- ( )

3) Computations (40%)

- 7 ○ EASY: (3r)

✗

-10%

- 3 ○ MEDIUM: (1k) ✓

-10%

- 9 ○ HARD: (3u) didn't get to.



FINAL EXAM RUBRIC

NAME: Beatrix Haddock

F: 5

A

1) Statements of Definitions and Theorems (40%)

i. Definitions (20%):

- 1 ○ (3c) ✓
- 2 ○ (3k) ✓
- ( )
- ( )
- ( )

ii. Theorems (20%):

- 3 ○ (3l) ✓
- ( )
- ( )
- ( )
- ( )

2) Questions (20%)

- 6 ○ (3j) ✓
- 7 ○ (3l) ✓
- ( )
- ( )
- ( )

3) Computations (40%)

- 4 ○ EASY: (3m) Excellent

- 5 ○ MEDIUM: (3p1) ✓  
~~2~~

- 8 ○ HARD: (1m) ✓