



FUNDAMENTALS OF PATTERNMAKING: PART 2 - FLAT PATTERNING

Fall 2017

Wednesdays and Thursdays, Nov 8, 2017 – Jan 25, 2018
9 AM – 1 PM

West City Campus
3249 Fordham Street
San Diego, CA 92110
Room 209

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HOSPITALITY AND CONSUMER SCIENCES

SLOs, Visions, Missions

Program Purpose/Vision

The purpose is to provide San Diego Community College Continuing Education with non-credit courses consistent with the current Family and Consumer Sciences Program Plan for Community Colleges.

Mission Statement

Students completing courses or programs in San Diego Continuing Education's Hospitality and Consumer Sciences department will gain knowledge and skills in any of the possible subject matter offerings (foods/nutrition; culinary arts/hospitality/fashion productions/fashion merchandising/textiles/interior design/life management/consumer issues and personal development) in order to prepare for vocational careers in the above and to positively affect one's quality of life. The vision is to increase professional development, expand course diversity, enhance CE's image and grow enrollments in HCS.

SDCE Institutional Student Learning Outcomes

- 1. Social Responsibility** - SDCE students demonstrate interpersonal skills by learning and working cooperatively in a diverse environment.
- 2. Effective Communication** - SDCE students demonstrate effective communication skills.
- 3. Critical Thinking** - SDCE students critically process information, make decisions, and solve problems independently or cooperatively.
- 4. Personal and Professional Development** - SDCE students pursue short term and life-long learning goals, mastering necessary skills and using resource management and self-advocacy skills to cope with changing situations in their lives.
- 5. Diversity** - SDCE students incorporate and use principles of civility and compassion as they develop knowledge and skills: recognizing, respecting and valuing the place and role of all individuals in their community.

Fashion Discipline Student Learning Outcome (SLO)

Students completing a fashion or fashion production course or program will be able to understand and apply concepts, technologies, related skills and techniques by successfully completing class projects in order to prepare for fashion careers.

Patternmaking Essentials and Fit Program (SLO)

Students will learn the basic essential patternmaking techniques necessary to make a production quality master sloper pattern or design. They will build upon this skill by being able to drape, flat pattern manipulate, or custom style a garment with ideal fit.

Drafting and Flat Patterning Course (SLO)

Students will prove their mastery of drafting and flat pattern manipulation by using their drafted five-piece master sloper to design, pattern and construct an original dress design that fits their fit model or themselves.

Course Goals

Upon successful completion of the course the student will be able to:

1. Embrace industry specific nomenclature, reading, writing, math, communication and teamwork skills used to interact successfully with employers, customers, family and friends
2. Evaluate and problem solve using drafting and flat pattern manipulation methods and techniques
3. Combine drafting and flat pattern manipulation skills with other forms of patternmaking to attain the most efficient way of designing a garment.
4. Assess information on entry level employment opportunities in the apparel and costume industry
5. Synthesize drafting and flat pattern manipulation skills for an entrepreneurial sewn product business venture, family, friends and personal use.

Course Objectives

Students will demonstrate their class acquired learning and competencies through practical applications, plus written and oral communications. At the end of the course, with *reasonable attendance*, the student should be able to demonstrate the ability to:

1. Define, describe, and demonstrate (drafting and) flat pattern manipulation nomenclature, basic patternmaking tools and techniques
2. Design a garment on a croqui silhouette drawing that flatters the body proportions of the fit model
3. Take a sloper and learn to manipulate it to fit a half-scale dress form
4. Use the principles of (drafting and) flat pattern manipulation to pattern and problem solve an original design that fits your fit model
5. Optional, depending on time: copy a ready-made garment. (Learn to do a knock off.)
6. Perceive and review their newly acquired skill, throughout the course, by completion of assigned project(s) kept in a portfolio
7. Demonstrate time saving equipment and techniques used in pattern production, such as but not limited to: planning, organizing, and sequencing
8. Purchase appropriate fabric and findings for a given fashion design to create the finished image desired
9. Identify skills that are transferable to the entrepreneurial career market including but not limited to: research, communication, soft skills, and patternmaking competencies

Methods of Instruction

Methods of instruction may include, but are not limited to: classroom lectures, laboratory classroom discussions, digital and hardcopy handouts, collaborative learning, peer guidance, demonstrations, patternmaking software programs, internet research, YouTube and other online videos, accounting and document processing programs, books on disk, textbooks, library building books, recommended readings, audio-visual presentations, field trips, guest speakers, completion of portfolios, student presentations, sewn projects, personalized attention, and other student projects. This course, or sections of this course, may be offered through hybrid distance education. To get individualized help: write your name on the white board in descending order under the word "Help."

CLASS 1 ORIENTATION

Course Notes

1. **Syllabus is always subject to change**
2. Register via computer or with smart phone
3. Email absences to instructor
4. Print this syllabus
5. This is an advanced course (good idea to know how to sew first)
6. Cutting in Room 209
7. Take everything with you to class
8. Take notes and keep up with assignments
9. Always bring a 4 GB USB flash drive
10. Cleaning up after each class'

Books (Buy Required Text ASAP)

Required: *The Practical Guide to Patternmaking for Fashion Designers: Juniors, Misses, and Women* by Lori Knowles, Current Edition. ISBN # 1-56367-328-2. New York, NY: Fairchild Books.

Highly recommended: *Fitting and Pattern Alteration: A Multi-Method Approach to the Art of Style Selection, Fitting and Alteration* by Liechty, E., Rasband, J., Pottberg-Steineckert, D., (first or current edition). New York, NY: Fairchild Books.

Check www.amazon.com or the blog's links page for more sites to buy texts and books:
www.sewalongwithjoanie.com

Course Assessment

A student's completion/competency from this course will be based on multiple measures of performance. Assessment will measure the development of independent critical thinking and demonstrable basic patternmaking skills. Final course evaluation of the student's ability will be based on, but not limited to, the following criteria:

1. Completion of a Student Learning Outcome self-evaluation form which evaluates the achievement of said outcomes upon completion of the course
2. Demonstration of the correct use of a croqui in designing a garment
3. Take a sloper and learn to manipulate it to fit a half-scale dress form
4. Prove their (drafting and) flat pattern manipulation competence through their graded completed project(s) and other course requirements
5. Completion of a final flat pattern manipulation garment project that represents the image desired.
6. Copying a Ready Made Garment (Knock off)
7. Working on collaborative/group projects validating soft skills
8. Identifying employment, career and venture possibilities
9. Student must attend 80% of all class hours per course. Missing more than 20% of the class hours of the course will affect their grade.

Note: There are no longer any Certificates of Completion for individual courses. There are certificates for Program Completions at graduation.

Agenda

Check out the wall in WCC Room 209: 101 steps to produce one style for retail sale: • Introductions • Computer/phone registration • Student Learning Outcome sheets • Student authorization form • Tools and equipment supplied by the school • Soft skills • Things you need to supply and bring • Classroom etiquette • Soft skills • Fandango field trip • Print the glossary • The French curves (only if working 1/2 scale) • TLC for the school's machines • Signing and sewing machines to use • Lessons, sew alongs, and demos • Receiving help and learning from each other • Always list your name and topic on the "Help" board • Buying your project needs: fabric, notions, and lifetime sewing kit • Do the work involved on time • Manipulating slopers into master patterns • Trace out your 1/2 scale sloper master pattern

Fandango (optional field trip)

A field trip to buy sewing supplies at Yardage Town and Central Sewing with Joan McKenna. Bring your syllabus and some form of payment (about \$100). My other classes may join.

First Saturday after first class (date): _____

9:30 AM: Yardage Town. 1043 Broadway, El Cajon 92021. Phone: 619-444-3208.

- DO NOT buy serger thread here
- Buy woven inexpensive light denim or pants weight fabrics, woven interfacing, some supplies
- Buy your pattern for Sewing Fundamentals II according to your bust/chest, waist, and hips

11 AM: Central Sewing East. 1125 North Second Street, El Cajon 2021. Phone: 619-447-3244.

- Corner template, Simflex, mechanical chalk pencil, bobbins, Schmetz needles, some curves and rulers
- Manila 150 pound paper

Optional lunch:

- MJ's Family Restaurant at 576 North 2nd Street, El Cajon 92021. (619) 444-1902.
<http://mjsfamilyrestaurant.com/>

Future Events

Sew Pro's Field Trip to the LA garment District and M & L Fabrics. \$60. Call Clairemont Sew Pro's for details: 1-858-279-2500

Date: (Next Fall 2018)

Class 1 Homework

- Order your required textbook
- (Optional) Buy McCall's Pattern number: M 2718 only if you do NOT have a full size sloper

Class 2

Learn flat patterning techniques using 1/2 scale size until you finish your full size sloper patterns. (This instructor figures you will have your full size set of patterns and text by Class 5.)

Dart Manipulation Page 105 • Flat Pattern manipulation of the bodice front sloper • Chapter 5 page 107+, 134
• Flat Pattern manipulation of the bodice back sloper • Keep everything for your portfolio • Finish up as homework

Class 3 & 4

Flat Pattern manipulation of skirts • Finish Pages 119-121, 134 • Finish up as homework • Keep everything for your portfolio • Discussion of circular skirts

Class 5

Bateau neckline with facings. Page 138. Style 0601 • Keep everything for your portfolio • Finish up as homework • Or the class can decide to do the funnel neckline bodice with facings

Class 6

Rolled collar bodice. Page 148. Style: 0604 and/or sailor bodice. Page 156. Style: 0606.

Class 7

Raglan sleeves and convertible collar blouse. Style number 0805. Page 204 • Keep everything for your portfolio • Finish up as homework • Final croqui design due of your final project

Class 8

Make a torso sloper pattern • Turn it into a jacket sloper master pattern on Manila paper. Page 258. Page 290 makes it a Jacket Sloper • Turn in 3 croqui designs • **Decide with the instructor** which design will become your final project. The instructor will photocopy it.

Class 9

The Bolero with leg o mutton sleeves. Page 293. Style 1101.

Class 10

Grading of your patternmaking portfolios • Think about how you will pattern your original design • Photocopy and use the quarter size patterns at the back of your text book to test your patternmaking skills, before you pattern 1/2 or full size • Check your text for patterning instructions • Whatever you are unsure of patterning, look it up in your text and/or ask your instructor • Discuss your patterning ideas (the how's and why's) with the instructor • Pattern your original simple dress • Tape and try on your fit model • Remember to add seam allowances to your final patterns! • Remember your industry standard pattern markings • Complete your patterns for homework

Class 11 & 12

Complete your full size original patterns • Show the instructor • Turn them in on a Pattern hook for discussion and grading

Class 13-17

Cut and sew up your designer original in muslin or **cheap/inexpensive** fashion fabric

Class 18

Last day of Fall course • Final presentation of Completed Course Projects: Your original dress which matches your croqui silhouette original design • Instructor will be taking pictures of you wearing your final original dress and the final patterns

BASIC PATTERNMAKING NEEDS

Check Central Sewing and/or www.wawak.com

- 4 GB flash drive (Bring to every class!)
- Variety of soft lead pens and pencils
- Required textbook
- Paper scissors
- Needlepoint tracing wheel
- Double corrugated cardboard mat (at least 18" x 16") or quilt mat
- Any religious object
- An awl
- Adding machine tape
- 1 yard of Manila 150 lb pattern paper (Central Sewing in El Cajon has this)
- Sharpie ultra fine markers: red, blue, black, green, or purple
- Set of 1/2 scale curves from www.sewalongwithjoanie.com (see downloads)
- 3/4 inch wide "green" Magic Tape
- Optional: Notcher (1/16 wide x 1/4 inch bite)
- 6-inch see through ruler
- 18 x 2 inch see through ruler with grid (only if you are lucky enough to have done this)
- Patternmaking curve ruler (Fairgate: 01-128P or Dritz fashion ruler)
- 2-3 1.5 inch (the large size) pattern hooks
- Optional: McCall's pattern number: M 2718**

SEWING NEEDS FOR PATTERNMAKING COURSE

- One bobbin for a Pfaff 2036 or Bernina 130
- New or fairly new tape measure
- 4 or 5 yards muslin or solid color broadcloth
- Fashion fabric, notions and supplies for final project
- Access to a sewing machine
- Matching thread for fashion fabric
- Straight pins
- Basic sewing kit
- Fabric shears
- Variety of pens and pencils
- Thread nippers or scissors
- Scrap fabric to test sewing machines

NICE TO OWN

- 1/2 scale dress form (check Ebay first): <http://www.pgmdressform.com/half-scale-dress-form-c129/miniature-half-scale-ladies-dress-form-614a-p693.html>
- Personal roll of pattern paper: 15-18 inches wide (Smart & Final butcher paper, or white wrapping paper from Staples, Office Depot)

DISTANCE BETWEEN
X ~ Y

INTERPRETING THE CIRCLE/CASCADE RADIUS CHART

The chart indicates the radius needed to develop a circle or part of a circle. It is easy to use and eliminates the need for complex mathematical formulas for developing patterns for circular-type skirts, cascades and flounces. One need know only the distance to be covered by the inside edge of the circle.

Column 1 represents the distance to be covered in whole numbers (inches). For measurements in between whole numbers, use Column 1 as follows:

- 25½ inches or less, use 25 inches.
- Over 25½ inches, use 26 inches.

These measurements are close enough for test fitting.

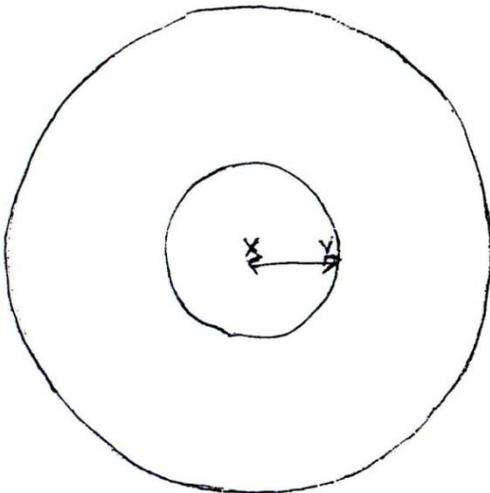
Columns 2, 3, 4, and 5 represent the radius for circles or part of a circle covering the distance given in Column 1.

The symbols - and + represent 1/16 inch added to or subtracted from the number to which it is associated.

To include seam allowance for the inside circle subtract 1/4 or 1/2 inch (depends on required seam) from the radius measurement. (The draft will mention this.)

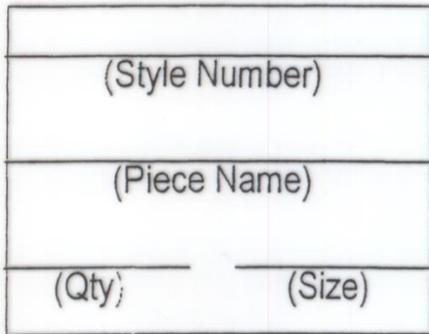
CIRCLE/CASCADE RADIUS CHART

Column 1 Distance covered	Column 2 1/4 circle	Column 3 1/2 circle	Column 4 3/4 circle	Column 5 Full circle
1	0 5/8	0 1/4+	0 1/4-	0 1/8+
2	1 1/4+	0 5/8	0 1/2-	0 3/8-
3	1 7/8+	0 7/8+	0 5/8	0 1/2-
4	2 1/2+	1 1/4+	0 7/8-	0 5/8
5	3 1/8+	1 5/8-	1 1/8-	0 3/4+
6	3 3/4+	1 7/8+	1 1/4+	0 7/8+
7	4 1/2-	2 1/4-	1 1/2	1 1/8
8	5 1/8-	2 1/2+	1 5/8+	1 1/4+
9	5 3/4-	2 7/8	1 7/8+	1 3/8+
10	6 3/8	3 1/8+	2 1/8	1 5/8-
11	7	3 1/2	2 3/8-	1 3/4
12	7 5/8	3 3/4+	2 1/2+	1 7/8+
13	8 1/4+	4 1/8	2 3/4	2 1/8-
14	8 7/8+	4 1/2-	2 7/8+	2 1/4-
15	9 1/2+	4 3/4+	3 1/8+	2 3/8
16	10 1/8+	5 1/8-	3 3/8+	2 1/2+
17	10 3/4+	5 3/8+	3 5/8-	2 3/4-
18	11 1/2-	5 3/4+	3 3/4+	2 7/8
19	12 1/8-	6 1/8	4 1/8-	3
20	12 3/4-	6 3/8	4 1/4	3 1/8+
21	13 3/8	6 5/8+	4 1/2-	3 3/8-
22	14	7	4 5/8+	3 1/2
23	14 5/8+	7 1/4+	4 7/8	3 5/8+
24	15 1/4+	7 5/8	5 1/8-	3 3/4+
25	15 7/8+	7 7/8+	5 1/4+	3 7/8+
26	16 1/2+	8 1/4+	5 1/2+	4 1/8
27	17 1/8+	8 5/8-	5 3/4-	4 3/8-
28	17 3/4+	8 7/8+	5 7/8+	4 1/2-
29	18 1/2-	9 1/4-	6 1/8+	4 5/8
30	19 1/8-	9 1/2+	6 3/8	4 3/4+
31	19 3/4	9 7/8	6 5/8-	4 7/8+
32	20 3/8	10 7/8+	6 3/4+	5 1/8-
33	21	10 1/2	7	5 1/4
34	21 5/8+	10 3/4+	7 1/4-	5 3/8+
35	22 1/4+	11 1/8	7 1/2-	5 1/2+
36	22 7/8+	11 1/2-	7 5/8	5 3/4-
37	23 1/2+	11 3/4+	7 7/8-	5 7/8
38	24 1/8+	12 1/8-	8 1/8-	6 1/8-
39	24 7/8-	12 3/8+	8 1/4+	6 1/4-
40	25 1/2-	12 3/4-	8 1/2	6 3/8
41	26 1/8-	13 1/8-	8 5/8+	6 1/2+
42	26 3/4	13 3/8	8 7/8+	6 5/8+
43	27 3/8	13 5/8+	9 1/8	6 7/8-
44	28	14	9 3/8+	7
45	28 5/8+	14 1/4+	9 1/2+	7 1/8+
46	29 1/4+	14 5/8+	9 3/4	7 3/8-
47	29 7/8+	14 7/8+	9 7/8+	7 1/2-
48	30 1/2+	15 1/4+	10 1/8+	7 5/8
49	31 1/8+	15 5/8-	10 3/8+	7 3/4+
50	31 7/8-	15 7/8+	10 5/8	7 7/8+

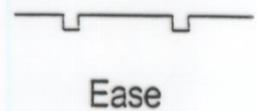
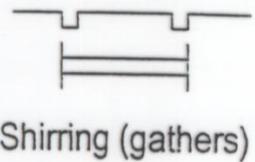
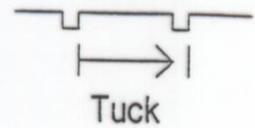
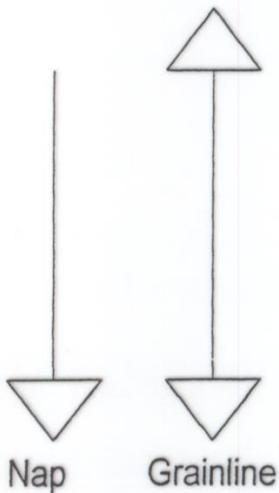
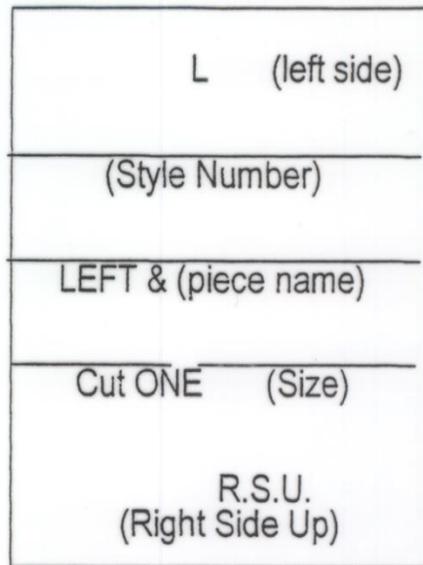


Common Pattern Markings

Pattern piece ID



Asymmetrical Piece ID Example:



Match Stripe (cross grain)



Box pleat



Box pleat



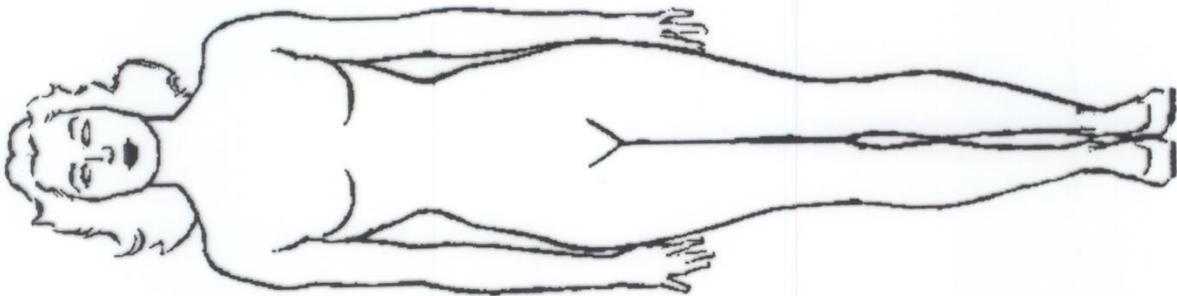
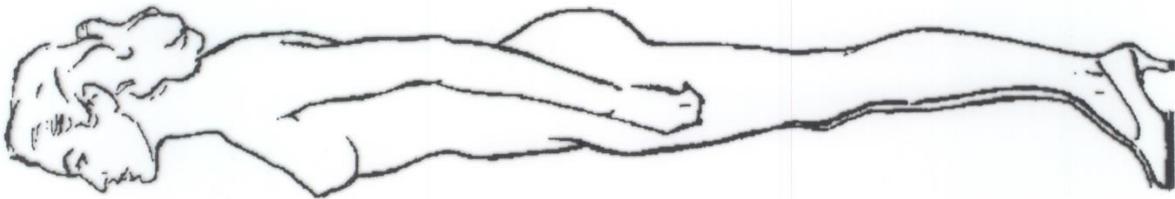
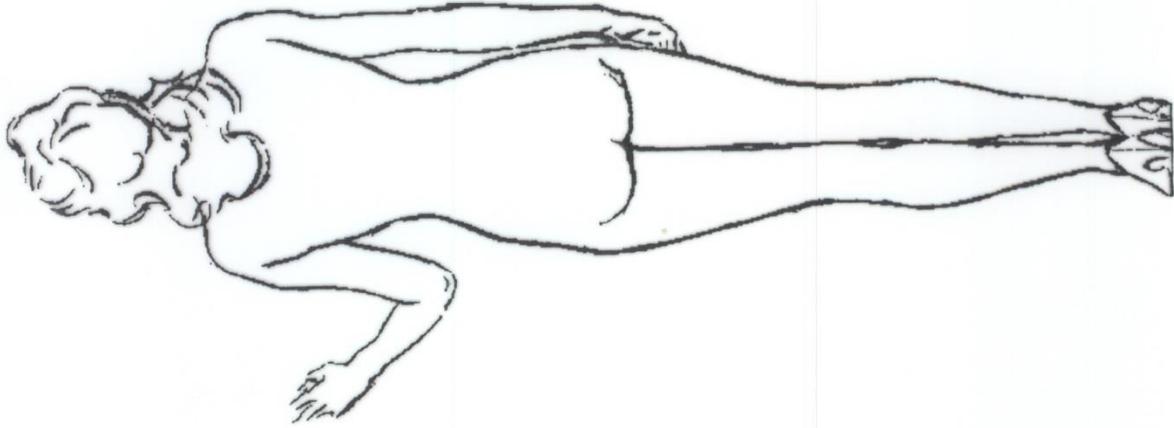
Punch, drilled



Dart (sewn 1/2" beyond hole)

Designer: _____

Date: _____



CHECKLIST FOR PORTFOLIO

Designer: _____

Date: _____

Presentation Date	Date Student Completed	Project
	1.	Dart manipulation on front bodice #501 (page 107)
	2.	Dart manipulation on back bodice #503 (page 112)
	3.	4 skirt manipulations: circle & flare and gored skirts
	4.	Bateau neckline bodice with facings #601 (page 138) or #602 funnel neckline bodice with facings (class choice)
	5.	Rolled collar blouse
	6.	Raglan sleeve & convertible collar #805 (page 204)
	7.	Drafted torso sloper
	8.	Bolero jacket with leg o mutton sleeves
	9.	3 croqui with original dress designs. One picked for final.
	10.	Quarter size "trial and error"
	11.	Final half scale or full size patterns
	12.	Completed final garment
	13.	Extra credit: First dress - #508 sewn up to check fit
	14.	
	15.	
	16.	
	17.	
	18.	
	19.	
	20.	