

## Unit 2 Lab 7 - Using Simple Graphics

class hour \_\_\_\_\_

Pts: 10

Name \_\_\_\_\_

page 1 of 3

### I. 3.1 Graphics output on the Console window

1) a) Open **P1ch2lab7.java**

b) Run and describe what happened (there should be no error)

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c) On page 27 start at the line 3.1.1 and do the arrow step below it but click **Save As** and save it as **P1ch2lab7b.java** and then write the difference:

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d) Do step line 3.1.2 and do the arrow step below it and write the difference:

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e) Do step line 3.1.3 and do the arrow step below it and write the difference:

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f) Do step line 3.1.4 on page 28 and do the arrow step below it and write the difference:

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g) Do step line 3.1.5 and answer:

c.fillRect( \_\_\_\_\_ );

h) Do step line 3.1.6 and answer:

c.fillRect( \_\_\_\_\_ );

i) Do step line 3.1.7 and answer:

c.fillRect( \_\_\_\_\_ );

j) Do step line 3.1.8 and answer:

Across: \_\_\_\_\_ Down: \_\_\_\_\_

k) Do step line 3.1.9 and the first arrow step below it, then raise your hand and show the Run to your teacher.

\_\_\_\_\_  
(teacher signature)

l) Change one of the statements `c.fillRect (?, ?, 5, 5);` to `c.drawRect (0, 0, 100, 100);` and Run then explain what happened

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m) After the `c.drawRect (0, 0, 100, 100);` add `c.drawOval (0, 0, 100, 100);` and Run then explain what happened

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**OVER**

n) After the `c.drawOval (0, 0, 100, 100);` add `c.fillOval (0, 0, 100, 100);` and explain what happened

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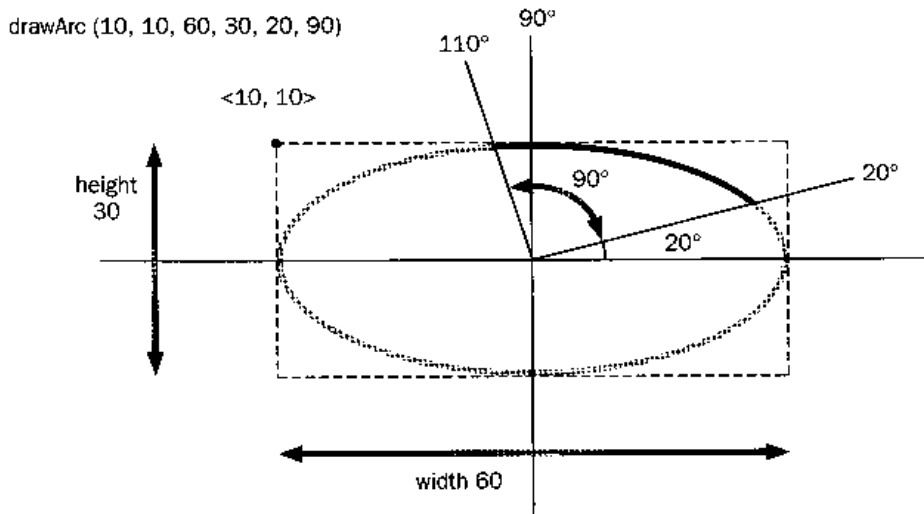
o) Change the `c.fillOval (0, 0, 100, 100);` to `c.drawLine (0, 0, 100, 100);` and explain what happened

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p) Change the `c.drawLine (0, 0, 100, 100);` to `c.drawArc (10, 10, 60, 30, 20, 90);` and explain what happened

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(Note: See the explanation below for this one as it is not an easy one to understand. Get help if you do not understand the picture explanation.)



**Go to the next page**

II. 3.4 Creating your own colors

1) a) Open **P1ch2lab7b.java**, from your H drive, if it is not already open and Run it

b) Do the last 2 arrow steps on page 30 and answer:

The last set color command used in the program was \_\_\_\_\_

This command was used to draw a rectangle of what color? \_\_\_\_\_

c) Do the top 2 arrow steps on page 31

d) Do the 3<sup>rd</sup> arrow step and answer what change occurred

\_\_\_\_\_

e) Answer the 4<sup>th</sup> arrow step \_\_\_\_\_

**Summary**

Read the last two sentences before EXERCISE 3A

III. EXERCISE 3A

1) a) Do all steps on page 31

b) On the top of page 32 answer:

**Color(R, G, B)**

**Color produced**

Color(0, 0, 0)

\_\_\_\_\_

Color(200, 200, 200)

\_\_\_\_\_

Color(255, 255, 255)

\_\_\_\_\_

Color(255, 0, 0)

\_\_\_\_\_

Color(0, 255, 0)

\_\_\_\_\_

Color(0, 0, 255)

\_\_\_\_\_

Color(160, 100, 0)

\_\_\_\_\_

Color(0, 200, 200)

\_\_\_\_\_

**Turn in this sheet to be graded!**