## **Review Day**

Unit 7 Graph Theory
Day 9

## Review Day Warm Up!

Create the a) expression tree, b) Use postorder traversal to find the Reverse Polish Notation, c) Evaluate the Reverse Polish Notation.

1. 
$$(4+2) \cdot 6 - 3 + 1 \cdot (5-2)$$

2. 
$$(5-1)+8/2-3 \cdot 6+2$$

## Review Day Warm Up ANSWERS!

Create the a) expression tree, b) Use postorder traversal to find the Reverse Polish Notation, c) Evaluate the Reverse Polish Notation.

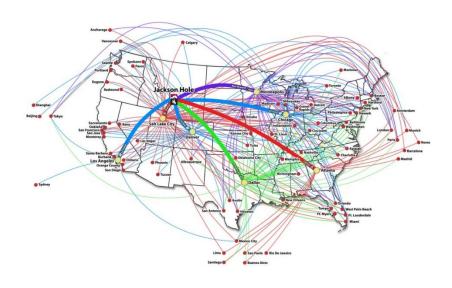
1. 
$$(4+2) \cdot 6 - 3 + 1 \cdot (5-2)$$

2. 
$$(5-1)+8/2-3 \cdot 6+2$$

### **Connecting Flights**

Look at the data below. Each line has the names of two cities. The line between the pairs of city means they are connected. For example, suppose that Louisville and Orlando might be connected by an airline.

Louisville – Orlando
Tampa – Columbus
Columbus – Orlando
Key West – Orlando
Orlando - Fort Lauderdale
Orlando – Nassau



- 2. Draw a graph to represent all of the city connections. Be sure to label accordingly.
- a. What is the chromatic #?
- b. Is this a bipartite graph?
- c. Is this a complete bipartite graph?
- d. Is it planar?
- e. Is it complete? Connected?

## Connecting Flights Graph

Louisville – Orlando
Tampa – Columbus
Columbus – Orlando
Key West – Orlando
Orland -- Fort Lauderdale
Orlando – Nassau

- a. What is the chromatic #?
- b. Is this a bipartite graph?
- c. Is this a complete bipartite graph?
- d. Is it planar?
- e. Is it complete? Connected?



- c. No
- d. Yes
- e. Not complete, yes

connected

## Some HW Answers Packet p.19

```
12 a. 3 2 * 8 2 3 * - +
b. 5 1 * 13 + 2 9 3 / * +
c. 4 3 + 8 * 2 +
15 a. 33 b. 7 c. 9 d. 14
16 a. 2 3 6 * + 4 1 + - and then evaluated = 15
b. 5 3 - 2 * 7 6 2 / - + and evaluated = 8
```

#### **LET'S GO SPEED DATING!**

5 MIN DATES.

# ON YOUR REVIEW SHEET CIRCLE OR HIGHLIGHT THE FOLLOWING QUESTIONS...

#2 #3 #5 #6 #9 #10

#13C #14A #17 #20

These are the 10 questions you will be working on with a partner, rotating partners.

You need a pencil, review sheet and blank paper. (Leave your cell phone!)

#### **LET'S GO SPEED DATING!**

#### 5 PEOPLE ON EACH SIDE OF THE LOCKERS

Only one side of the lockers will move.
I'll let you know which side when we get
out there!

You need a pencil, review sheet and blank paper. (Leave your cell phone!)

## TEST REVIEW ANSWERS ARE ON THE CLASS WEBSITE