

# Day 83

## 1. Opener

a) Rewrite these steps in order for completing the square:

$$\sqrt{(x-4)^2} = \sqrt{6}$$

$$x^2 - 8x + 10 = 0$$

$$x - 4 = \pm 2.4$$

$$x^2 - 8x + 16 = 6$$

$$(x-4)^2 = 6$$

$$x^2 - 8x = -10$$

$$x = 6.4, 1.6$$

b) Solve by completing the square:  $x^2 = 2x + 5$

c) How fast does a raindrop fall?

## 9. Homework

### Practice

$$\frac{5}{x-3} - \frac{2}{x+3}$$

### Challenge

Friday 5/15/9:

	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	AVG
Fourth	80	95	70	57	90	71	81	62	62	95	43	37				70
Sixth	57	100	48	71	62	86	86	86	52	86	33	35				67

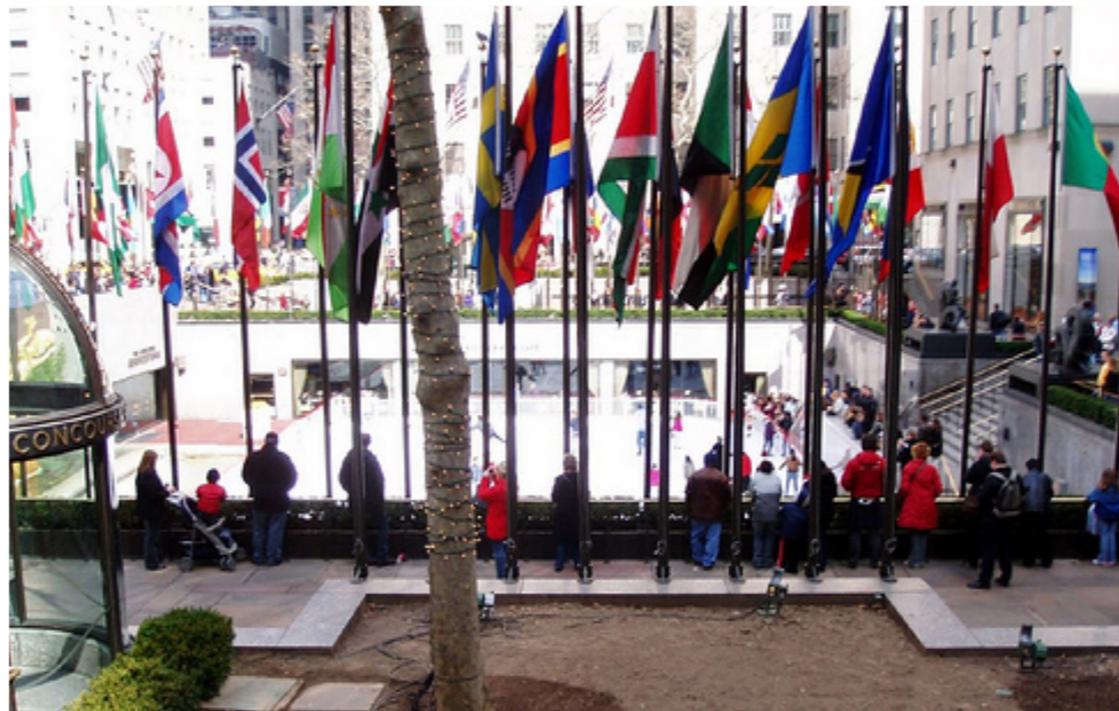










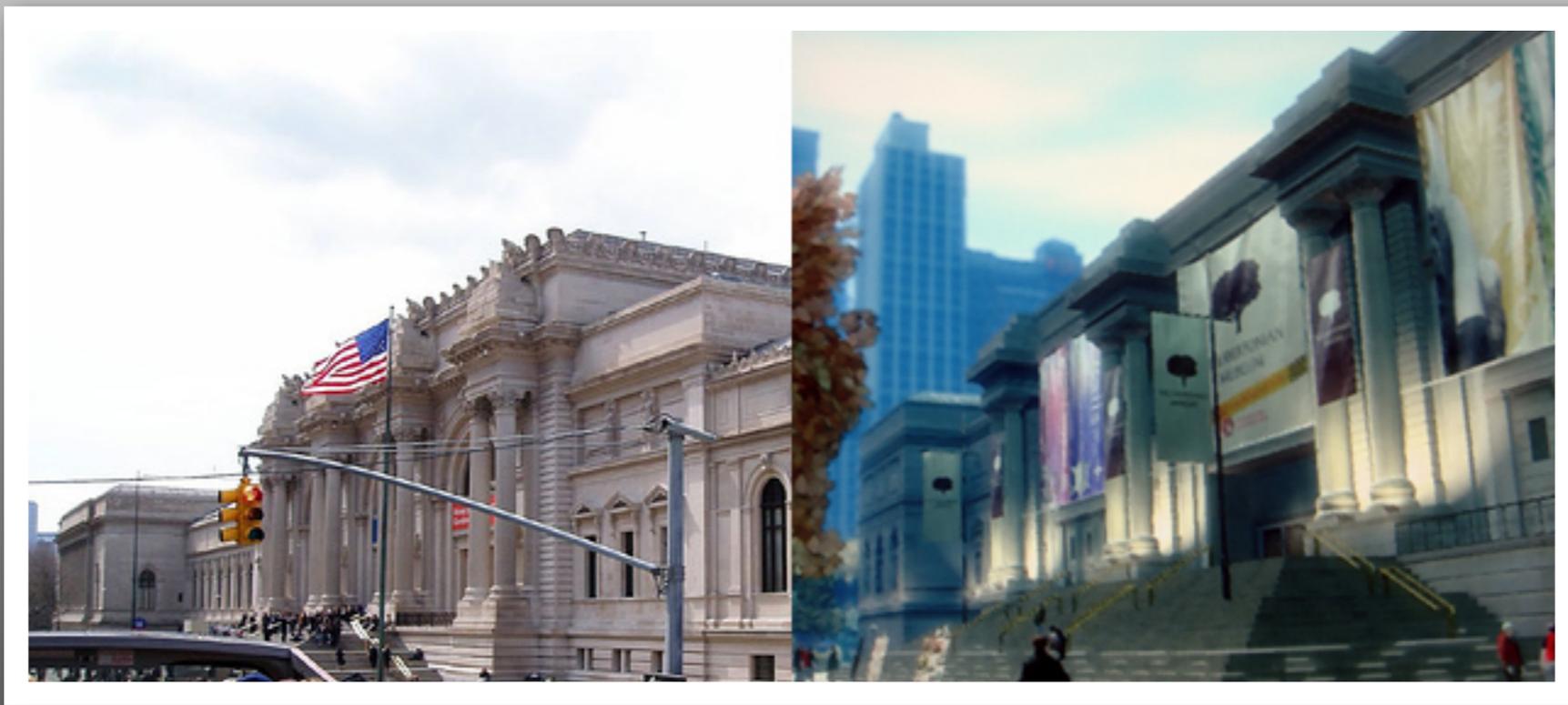


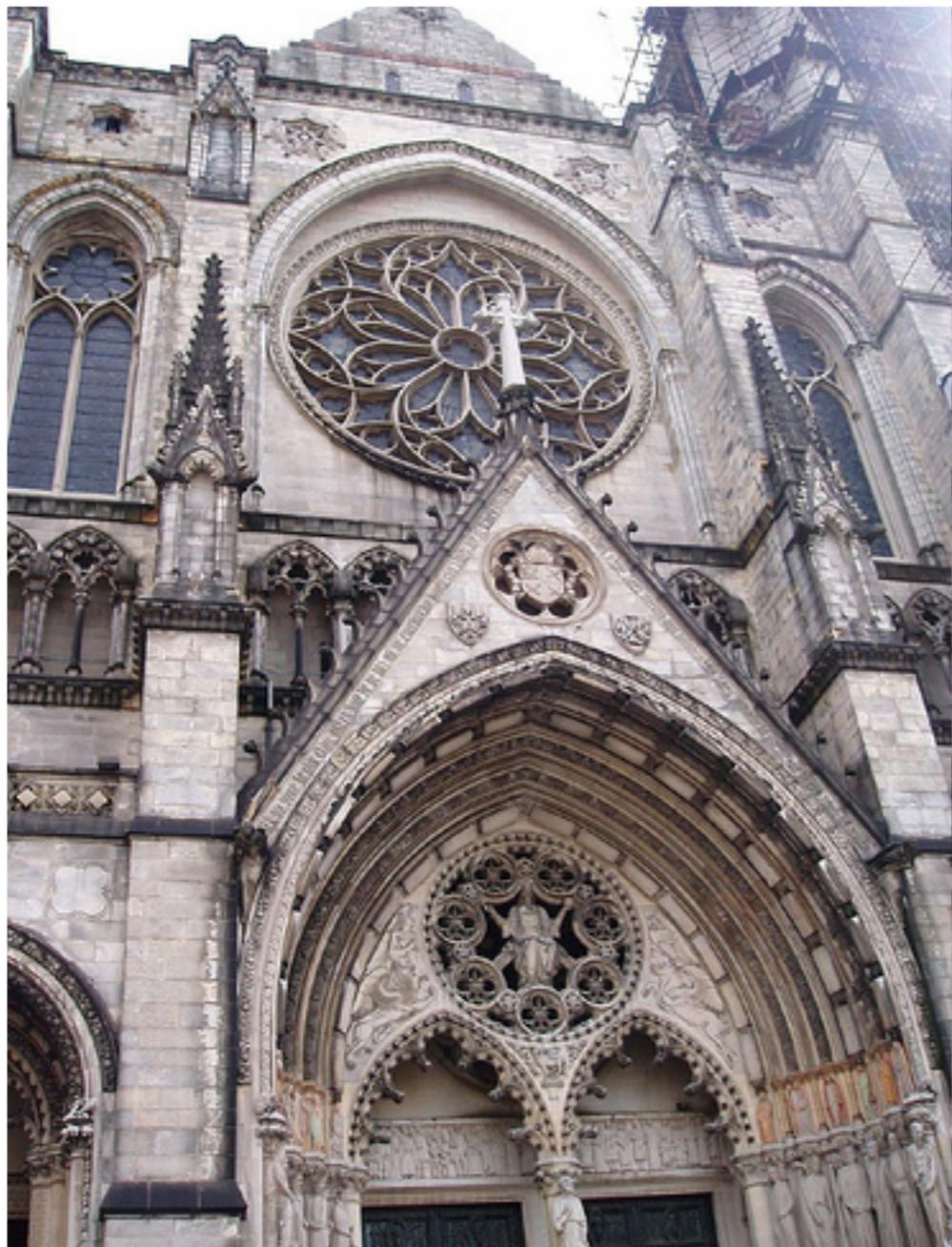








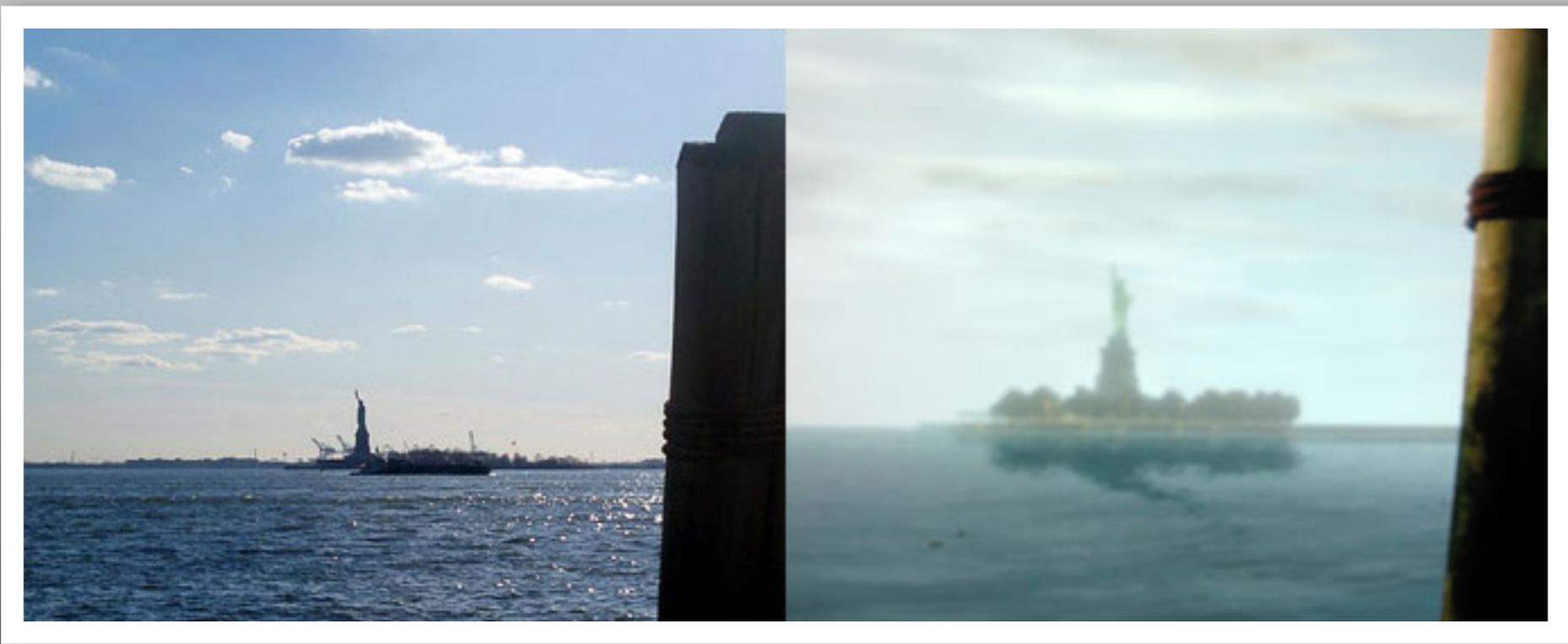
















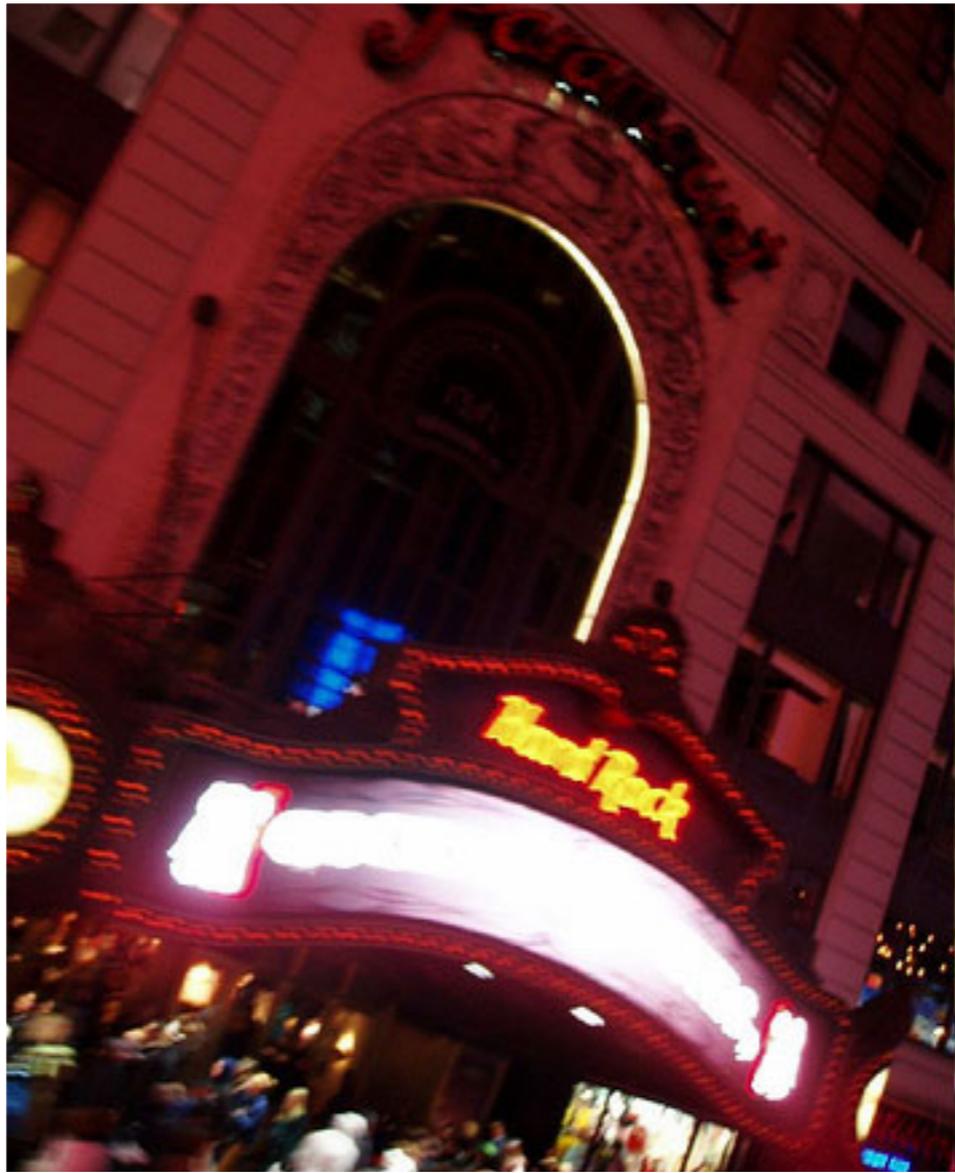




















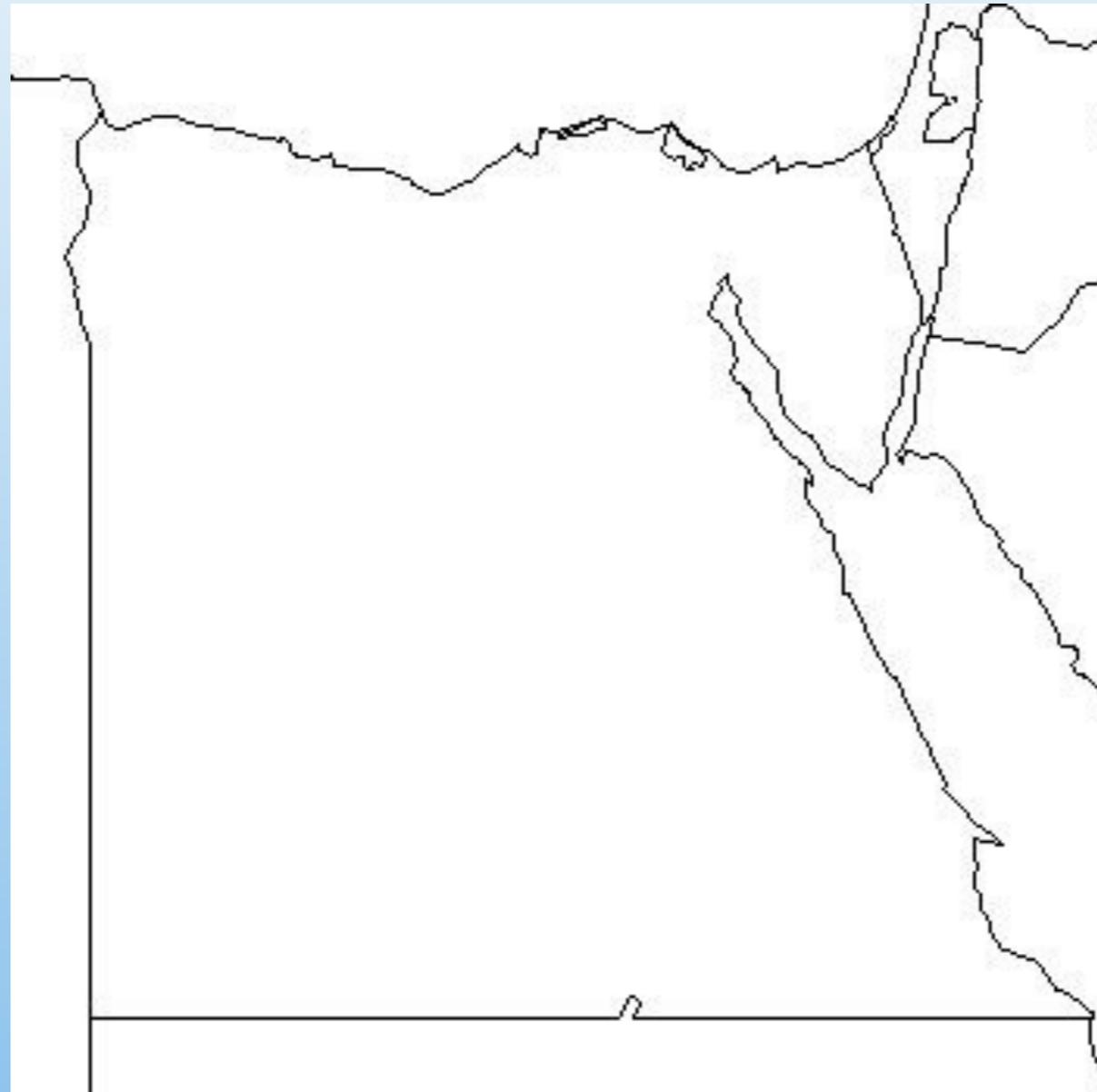
## 2. Basketball

$$\frac{6c - 2}{c + 5} \div \frac{3c - 9}{c}$$

## 2. Basketball

$$\frac{3}{x-2} \cdot \frac{x^2-4}{12}$$

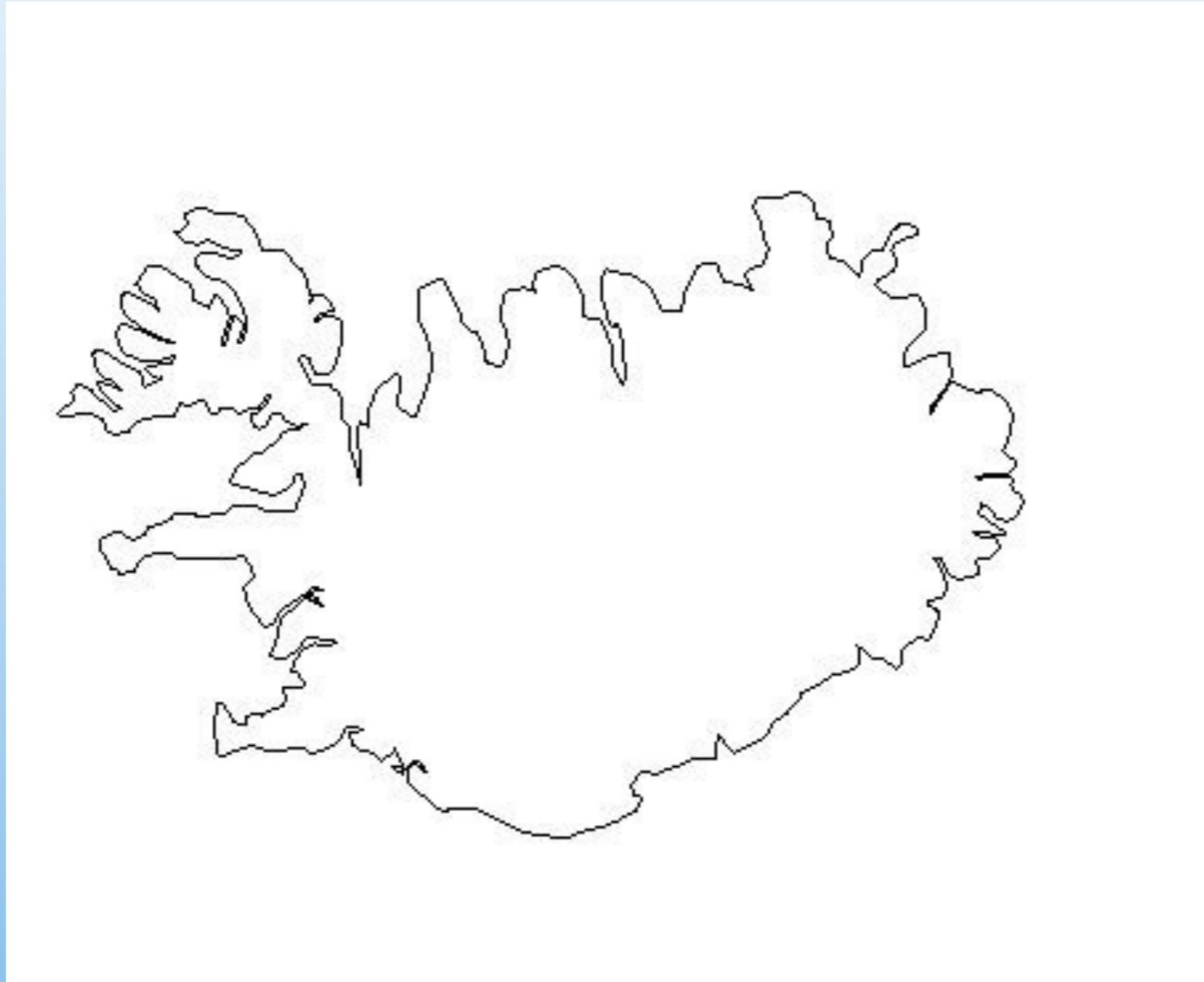
## 2. Basketball



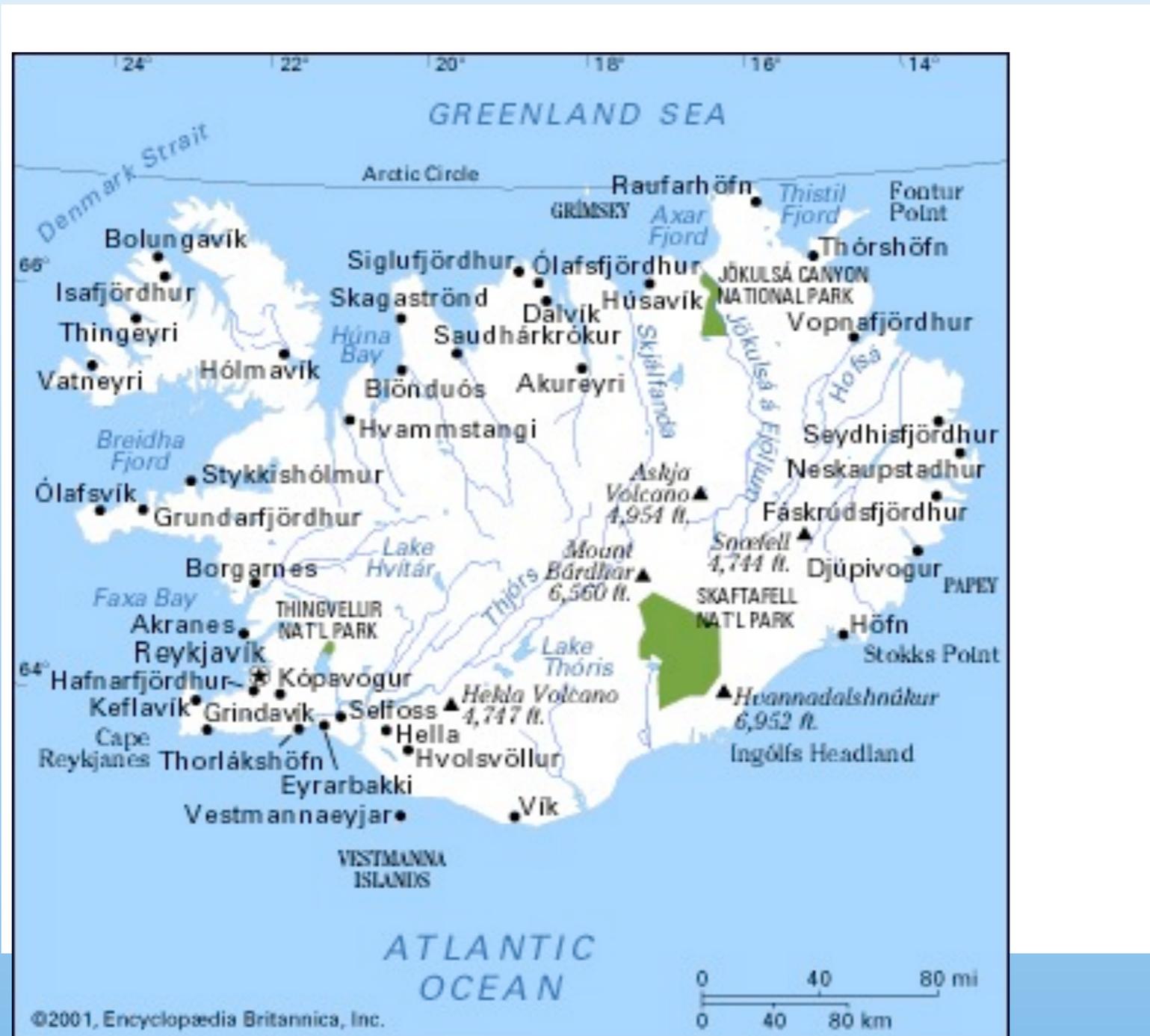
## 2. Basketball



## 2. Basketball



## 2. Basketball



## 2. Basketball

$$x^2 + 12x - 10 = 0$$

$$x^2 + 12x = 10$$

## 2. Basketball

$$x^2 + 12x - 10 = 0$$

$$x^2 + 12x = 10$$

$$x^2 + 12x + 36 = 46$$

## 2. Basketball

$$x^2 - 10x - 2 = 0$$

$$x^2 - 10x = 2$$

$$x^2 - 10x + 25 = 27$$

## 2. Basketball

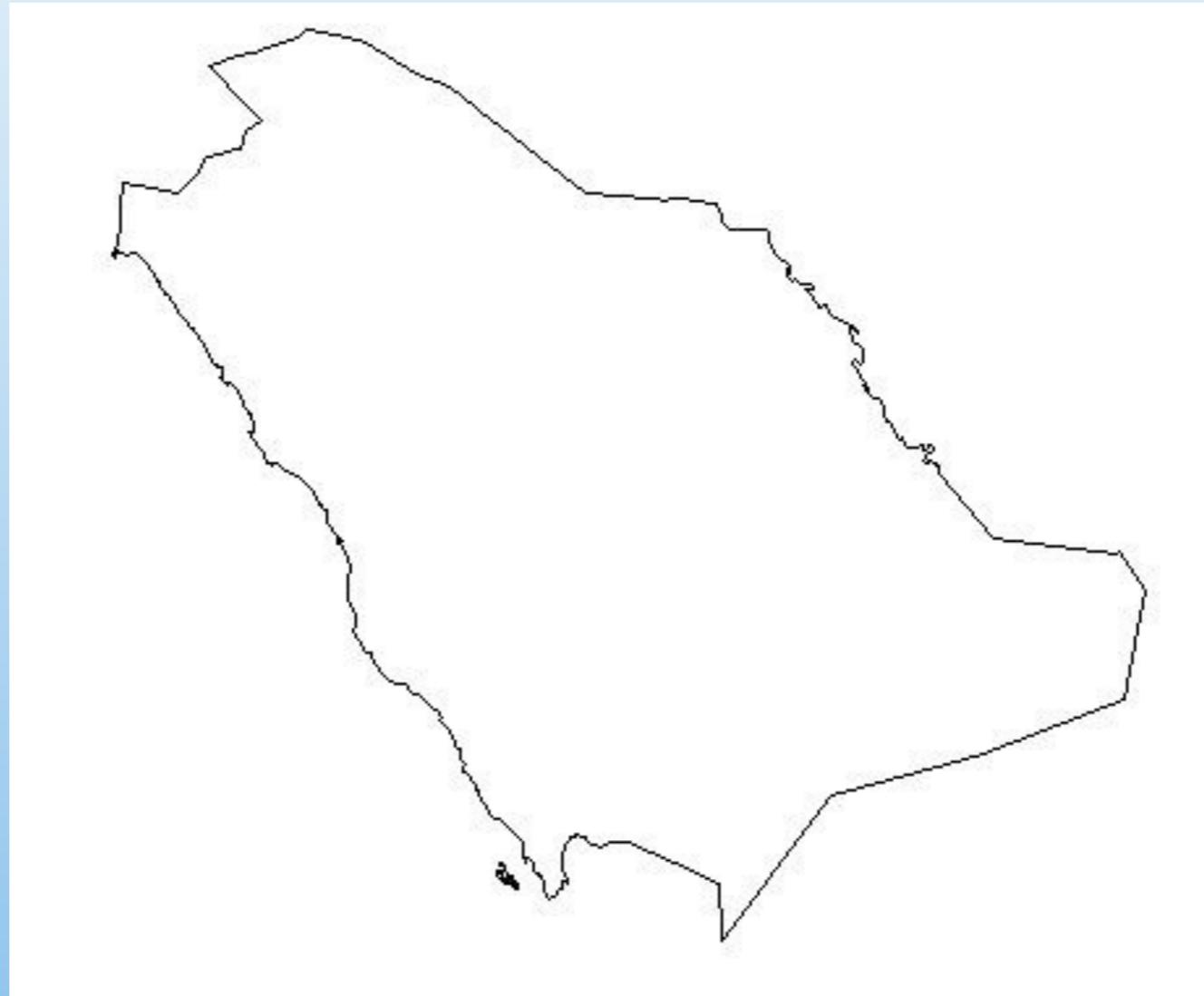
$$x^2 - 10x - 2 = 0$$

$$x^2 - 10x = 2$$

$$x^2 - 10x + 25 = 27$$

$$(x - 5)^2 = 27$$

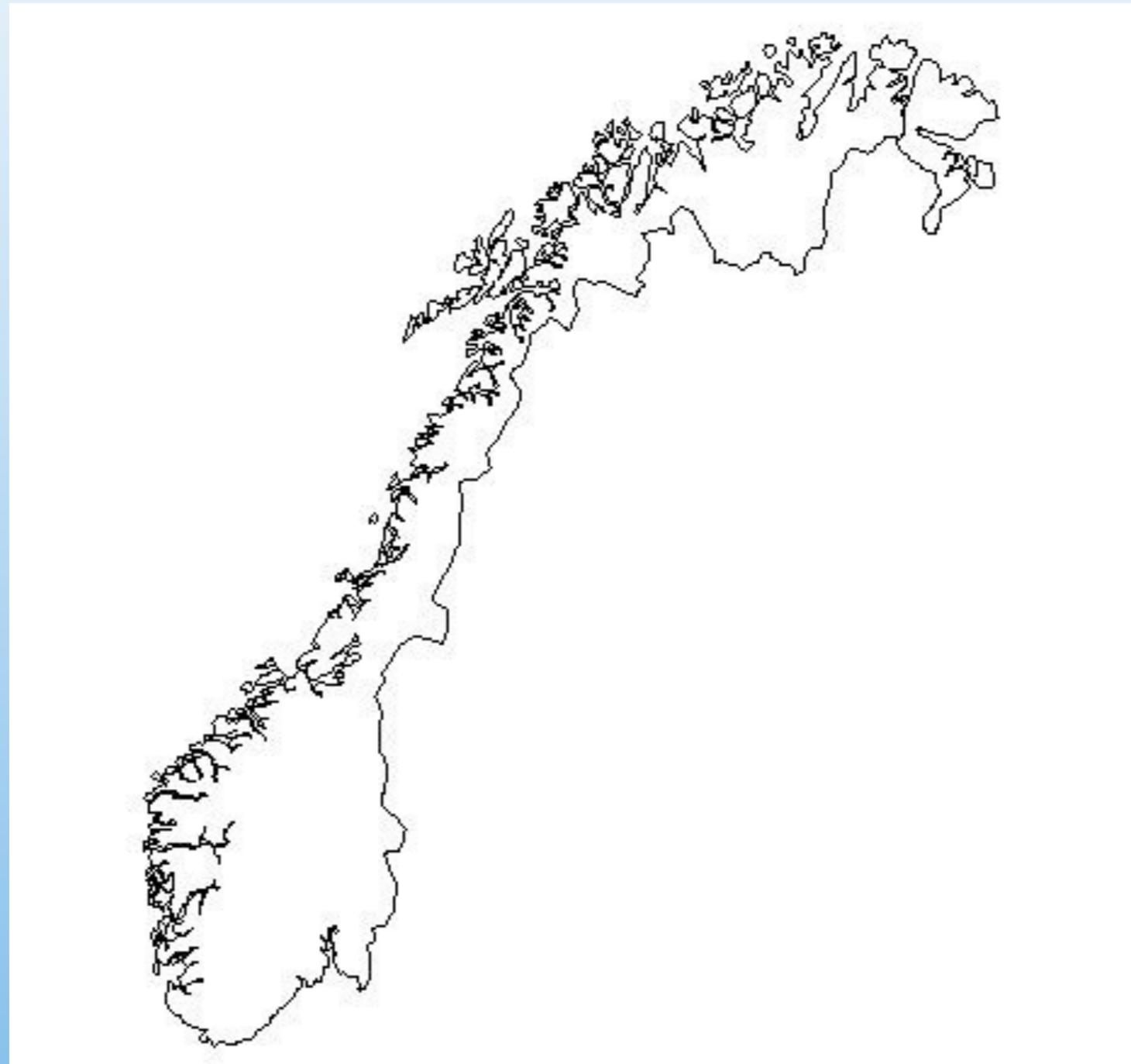
## 2. Basketball



## 2. Basketball



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## 2. Basketball

$$x^2 + 12x - 10 = 0$$

$$x^2 + 12x = 10$$

$$x^2 + 12x + 36 = 46$$

$$(x + 6)^2 = 46$$

## 2. Basketball

$$x^2 + 12x - 10 = 0$$

$$x^2 + 12x = 10$$

$$x^2 + 12x + 36 = 46$$

$$(x + 6)^2 = 46$$

$$\sqrt{(x + 6)^2} = \sqrt{46}$$

## 2. Basketball

$$x^2 + 12x - 10 = 0$$

$$x^2 + 12x = 10$$

$$x^2 + 12x + 36 = 46$$

$$(x + 6)^2 = 46$$

$$\sqrt{(x + 6)^2} = \sqrt{46}$$

$$x + 6 = \pm 6.8$$

## 2. Basketball

$$x^2 - 10x - 2 = 0$$

$$x^2 - 10x = 2$$

$$x^2 - 10x + 25 = 27$$

$$(x - 5)^2 = 27$$

$$\sqrt{(x - 5)^2} = \sqrt{27}$$

$$x - 5 = \pm 5.2$$

## 2. Basketball

$$x^2 - 10x - 2 = 0$$

$$x^2 - 10x = 2$$

$$x^2 - 10x + 25 = 27$$

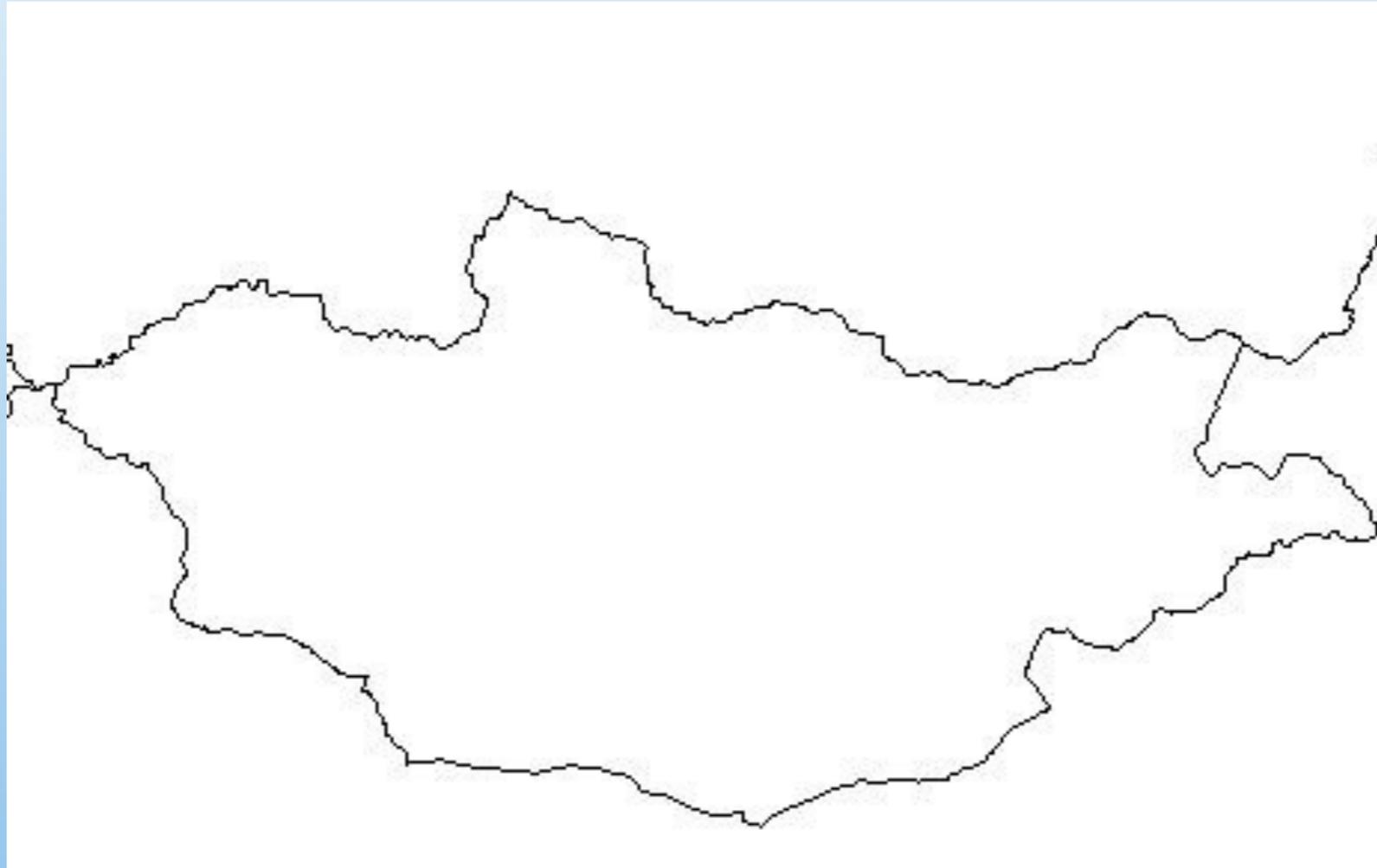
$$(x - 5)^2 = 27$$

$$\sqrt{(x - 5)^2} = \sqrt{27}$$

$$x - 5 = \pm 5.2$$

$$x = 10.2, - .2$$

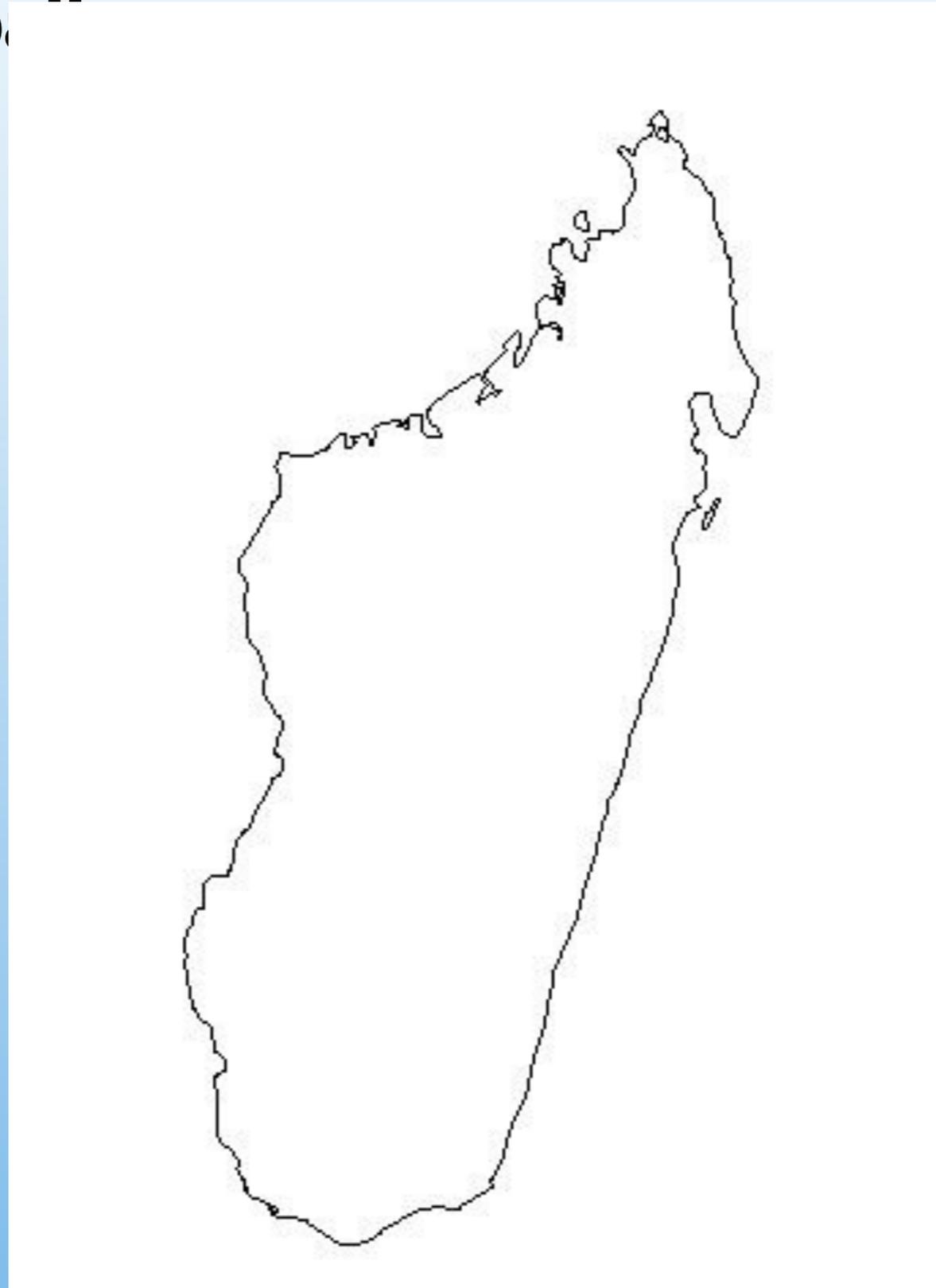
## 2. Basketball



## 2. Basketball



## 2. Basketball



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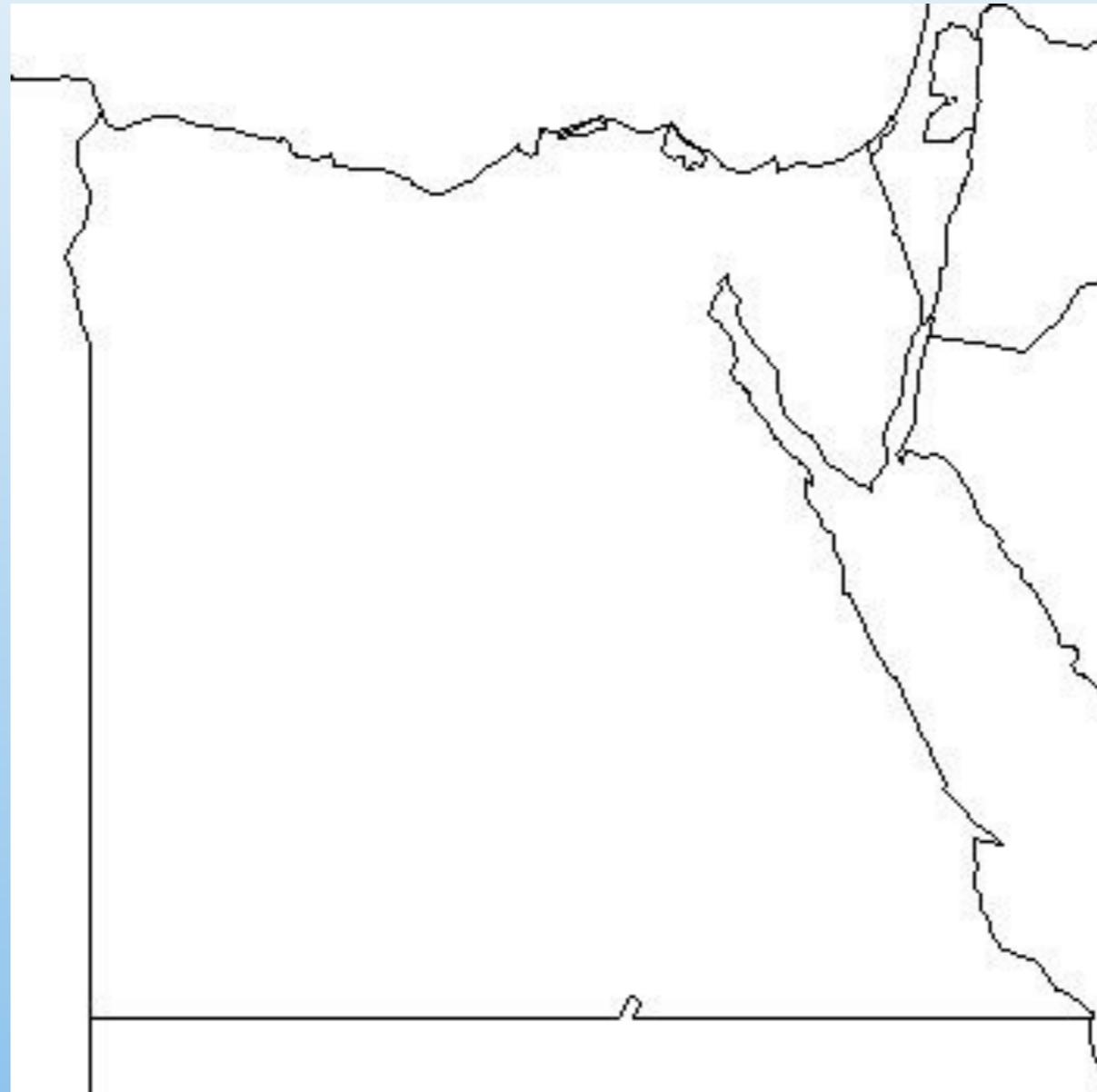
## 2. Basketball

$$\frac{5}{t} + \frac{4}{t+1}$$

## 2. Basketball

$$\frac{k - 11}{k^2 + 6k - 40} + \frac{5}{k - 4}$$

## 2. Basketball



## 2. Basketball



## 2. Basketball



## 2. Basketball



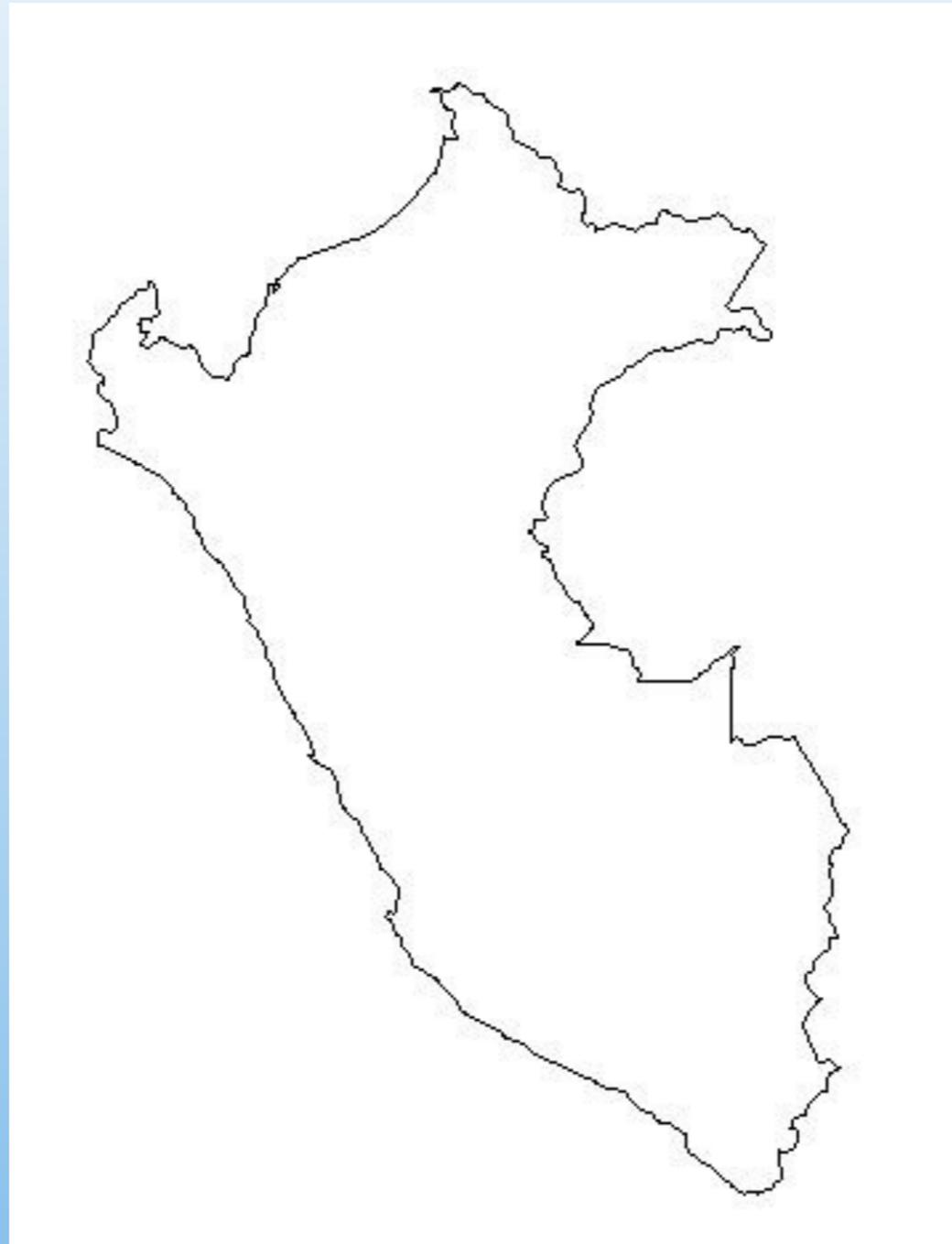
## 2. Basketball

$$\frac{4w}{3w-5} \cdot \frac{7}{2w}$$

## 2. Basketball

$$\frac{4x + 1}{5x + 10} \cdot \frac{30x + 60}{2x - 2}$$

## 2. Basketball



## 2. Basketball



### 3. Homework

#### Practice

$$\frac{4x + 1}{x + 2} - \frac{10x + 30}{5x + 10}$$

#### Challenge

# Day 84

## 1. Opener

a) Simplify:

$$\frac{2z^2 - 11z - 21}{z^2 - 6z - 7}$$

b) Solve by completing the square:

$$3x^2 - 8x + 5 = 2x^2 + 8x + 2$$

c) Add:

$$\frac{13}{x} - \frac{6}{x^2} + 5$$

d) When will Jim receive that disciplinary review?

e) What is the busiest calling holiday of the year? What is the busiest collect calling holiday?



## 9. Homework

### Practice

$$\frac{4x + 1}{x + 2} - \frac{10x + 30}{5x + 10}$$

### Challenge

Friday 5/15/9:

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## 2. Solving Rational Equations

$$\frac{1}{2x} + \frac{3}{10} = \frac{1}{5x}$$

## 2. Solving Rational Equations

$$\frac{5}{x^2} = \frac{6}{x} - 1$$

## 2. Solving Rational Equations

$$\frac{a}{a+3} = \frac{2a}{a-3} - 1$$

## **3. Classwork**

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**4. Break**

**5. Show and Tell**

## **6. Review Assignment**

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## **7. Concept Quiz**

## 8. Homework

### Practice

$$\frac{8}{t} - \frac{7}{2t} = \frac{t}{2}$$

### Challenge

# Day 85

## 1. Opener

a) Simplify:

$$\frac{x^2 - 5x - 6}{6} \cdot \frac{18}{3x - 18}$$

b) Simplify:

$$\frac{10}{6x - 3} - \frac{1}{2x - 1}$$

c)  $\sqrt{169} =$

d) Without using a calculator, estimate:  $\sqrt{80} =$

e) What is Europe's smallest country?

## 9. Homework

### Practice

$$\frac{8}{t} - \frac{7}{2t} = \frac{t}{2}$$

### Challenge

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Friday 5/22/9:

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Sixth	57	100	48	71	62	90	86	86	57	86	52	43	70			70





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**GOLD HILL**  
EST. — 1859  
ELEV. — 8463  
POP. — 118  
TOTAL 10440



$$\sqrt{80} =$$

## 2. Square Roots

$$\sqrt{80} =$$

$$\sqrt{120} =$$

## 2. Square Roots

$$\sqrt{120} =$$

$$-2\sqrt{120} =$$

## 2. Square Roots

$$-2\sqrt{120} =$$

$$\sqrt{3n} \cdot \sqrt{24n} =$$

## 2. Square Roots

$$\sqrt{3n} \cdot \sqrt{24n} =$$



## **3. Classwork**

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## **4. Break**

**4. Break**

**5. Show and Tell**



## **6. Treasure Hunt!**

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Groups of two or less.

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Everyone shows all the work.

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Don't mess with the hideouts.

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Stay on task.

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Respect other students.

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1. Attendance Office

## **6. Treasure Hunt!**

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Respect other students.

1. Attendance Office
2. East Counseling Door

## **6. Treasure Hunt!**

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Stay on task.

Respect other students.

1. Attendance Office
2. East Counseling Door
3. D-Building Bulletin Board

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Stay on task.

Respect other students.

1. Attendance Office
2. East Counseling Door
3. D-Building Bulletin Board
4. J4

## **6. Treasure Hunt!**

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1. Attendance Office
2. East Counseling Door
3. D-Building Bulletin Board
4. J4
5. G4

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1. Attendance Office
2. East Counseling Door
3. D-Building Bulletin Board
4. J4
5. G4
6. PAC

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1. Attendance Office
2. East Counseling Door
3. D-Building Bulletin Board
4. J4
5. G4
6. PAC
7. P2

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1. Attendance Office
2. East Counseling Door
3. D-Building Bulletin Board
4. J4
5. G4
6. PAC
7. P2
8. G1

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1. Attendance Office
2. East Counseling Door
3. D-Building Bulletin Board
4. J4
5. G4
6. PAC
7. P2
8. G1

Any problems, holla: 530.902.8445

## 7. Homework

### Practice

$$\sqrt{12b^2} \cdot \sqrt{15b^3} =$$

### Challenge