1. Vocabulary

* Know how to name each of the vocabulary words learned this unit
* Know the images of each vocabulary word
* Know the intersections of lines and planes.

1. Measuring segments

* Measuring Segments on a number line
* Understand the meaning of congruent segments and the symbol for congruence
* Understand how to carry out the segment addition Postulate (Part + Part = Whole)

1. Measuring Angles

* Know how to name an angle (three points with the vertex in the middle)
* Understand the differences between acute, right, obtuse and straight angle.
* Understand the meaning of congruent angles
* Know how to use and draw angle bisectors.
* Apply complementary, supplementary, linear pair and vertical angles to find the measure of angles

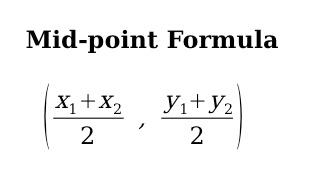
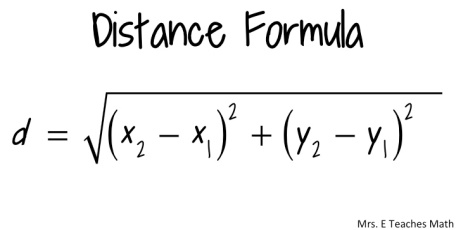
1. Midpoint and Distance

* Know the midpoint formula and apply it to find the midpoint of a line segment on a coordinate plane and a number line
* Understand the use of the distance formula in the coordinate plane

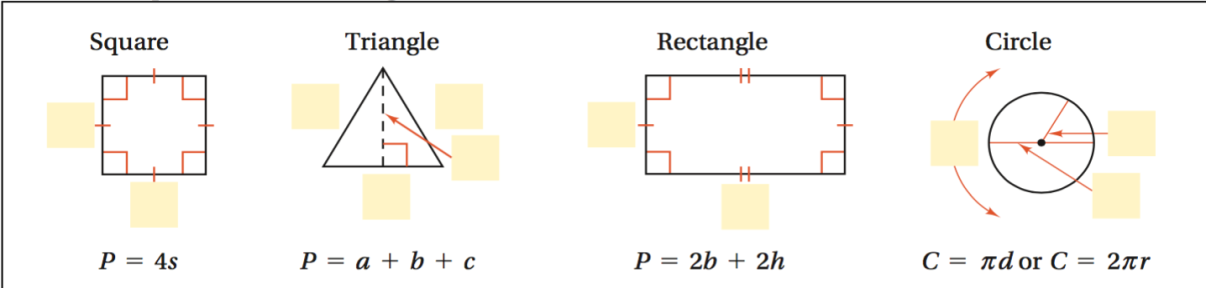
1. Area, Perimeter and Circumference

* Understand how to find the perimeter and area of shapes both on and off the coordinate plane
* Rectangle, Square, Triangle, and Circle

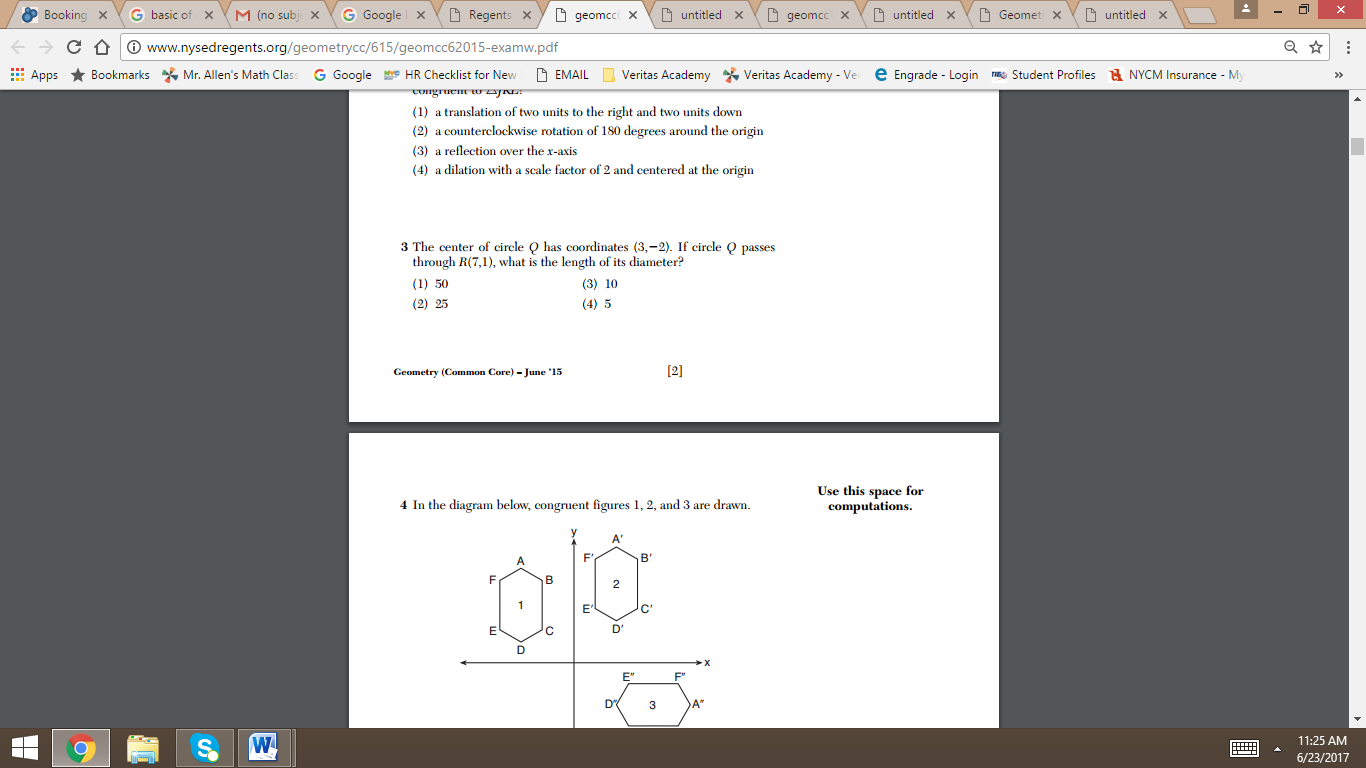
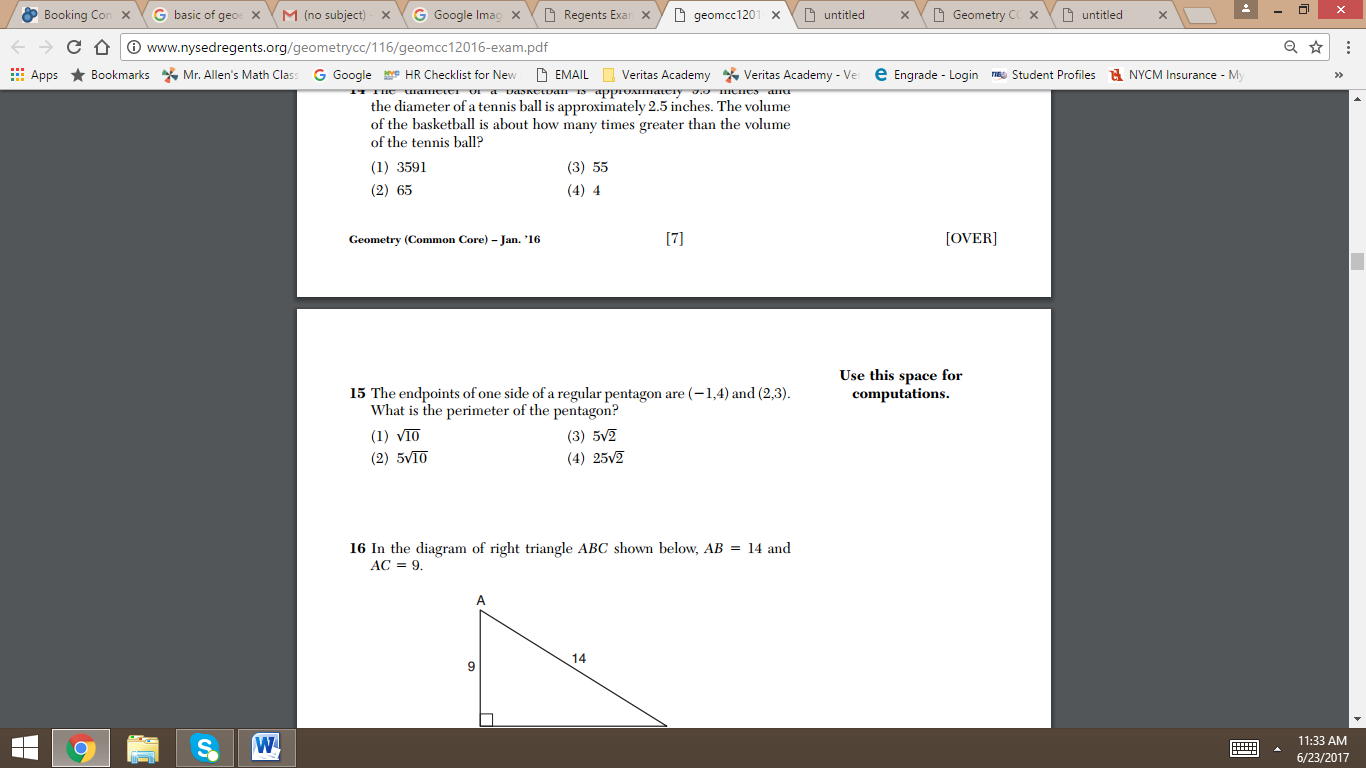
**Regents Questions:**



**Finding area and perimeter of triangles, rectangles and squares.**

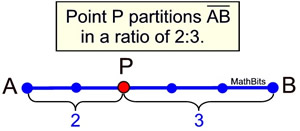
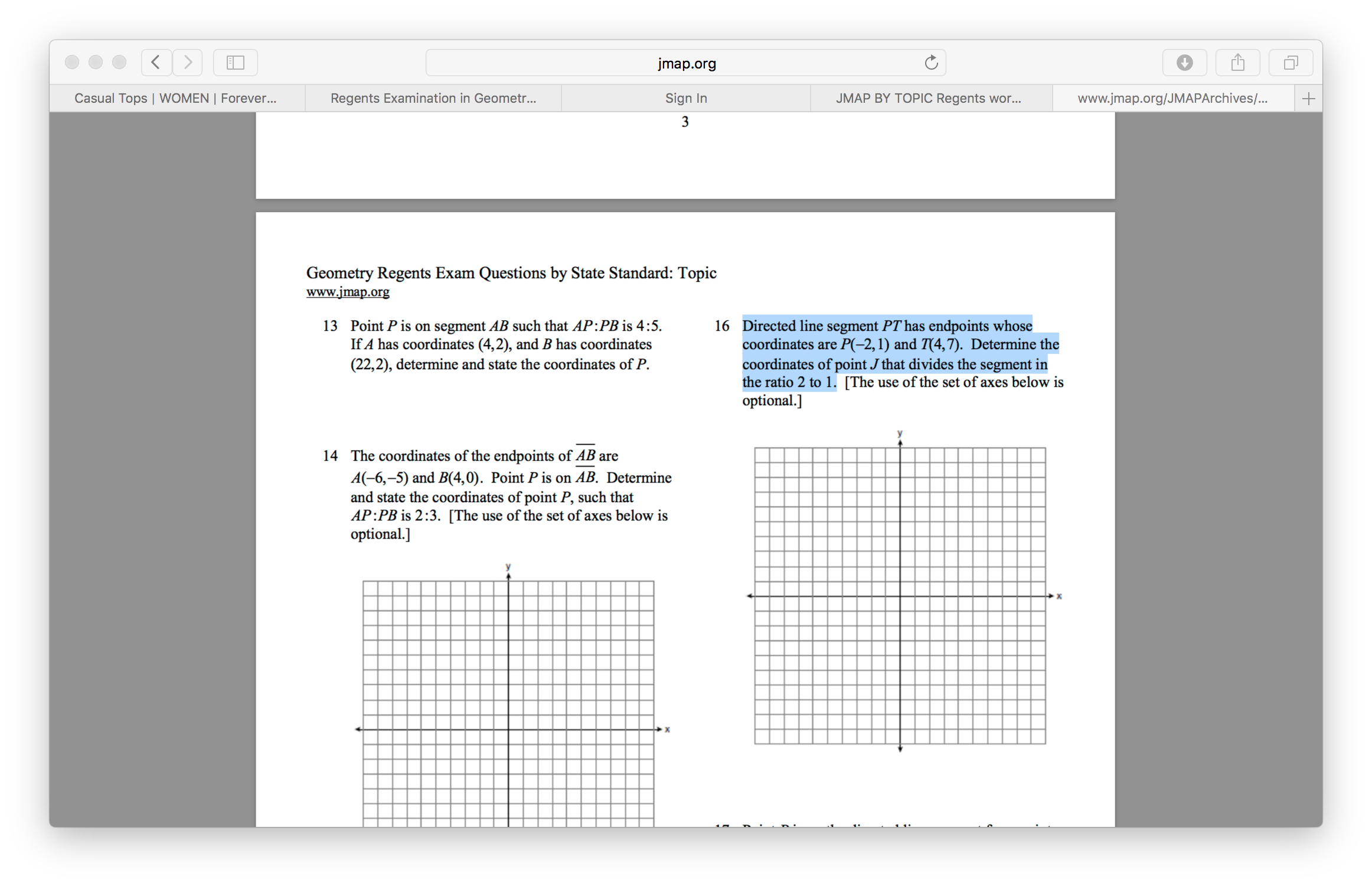


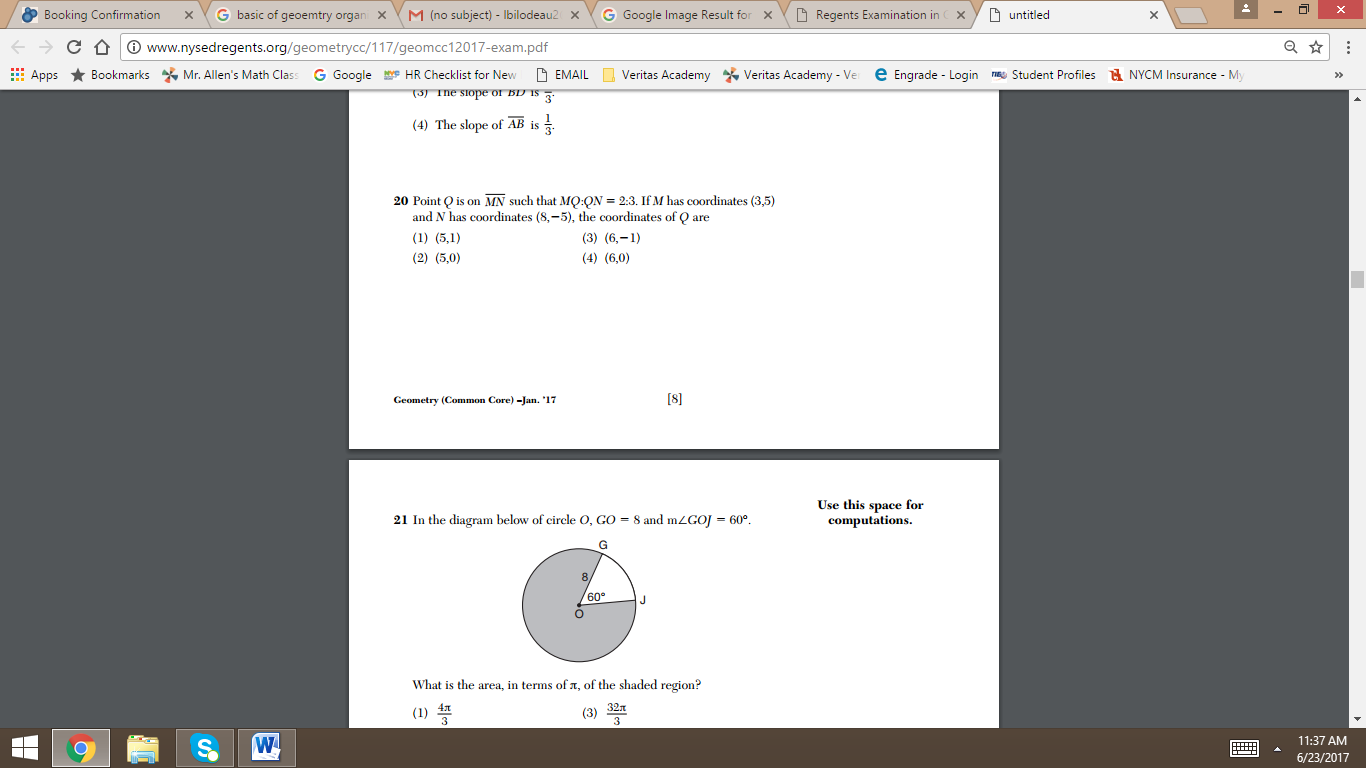


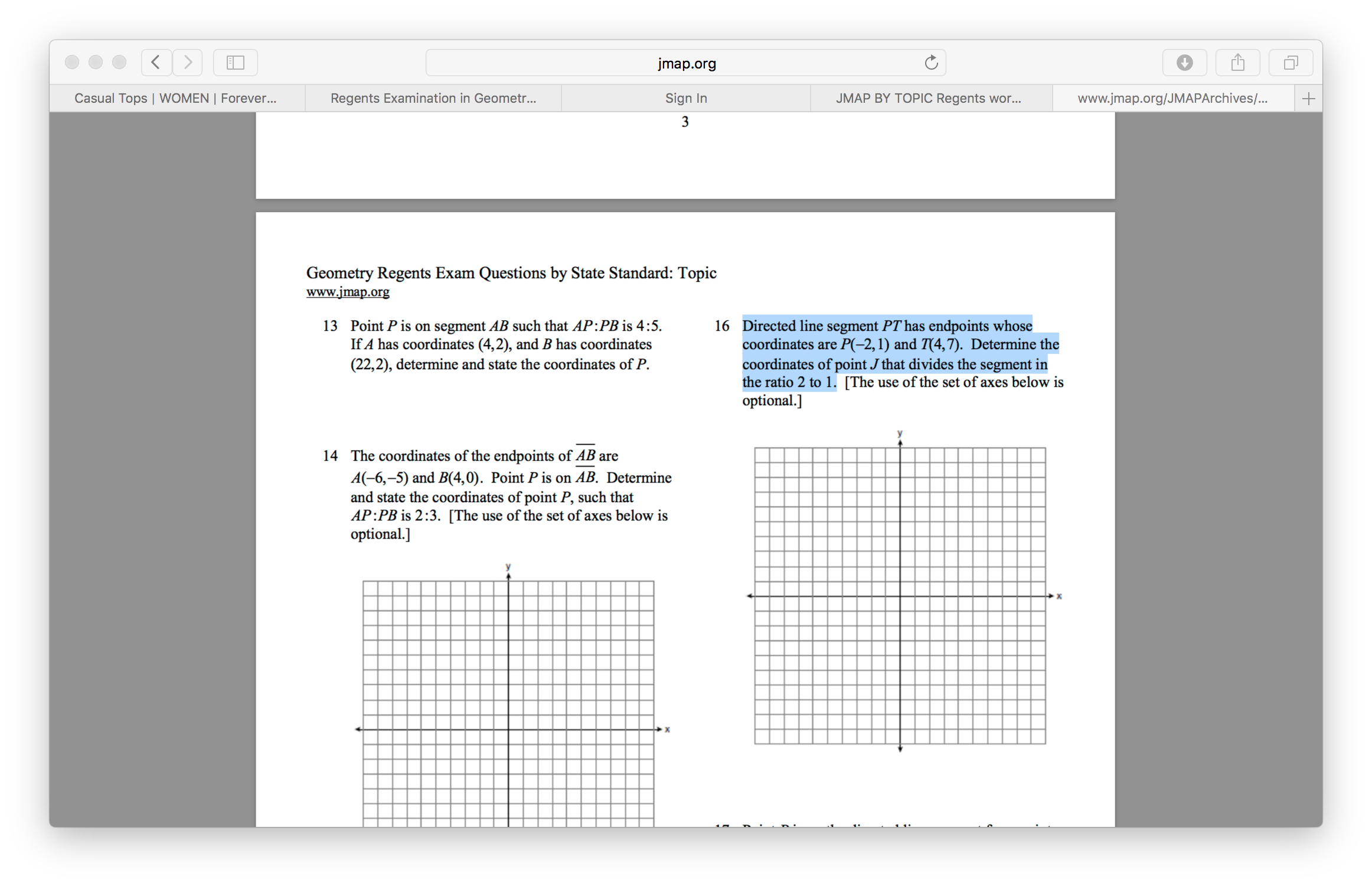


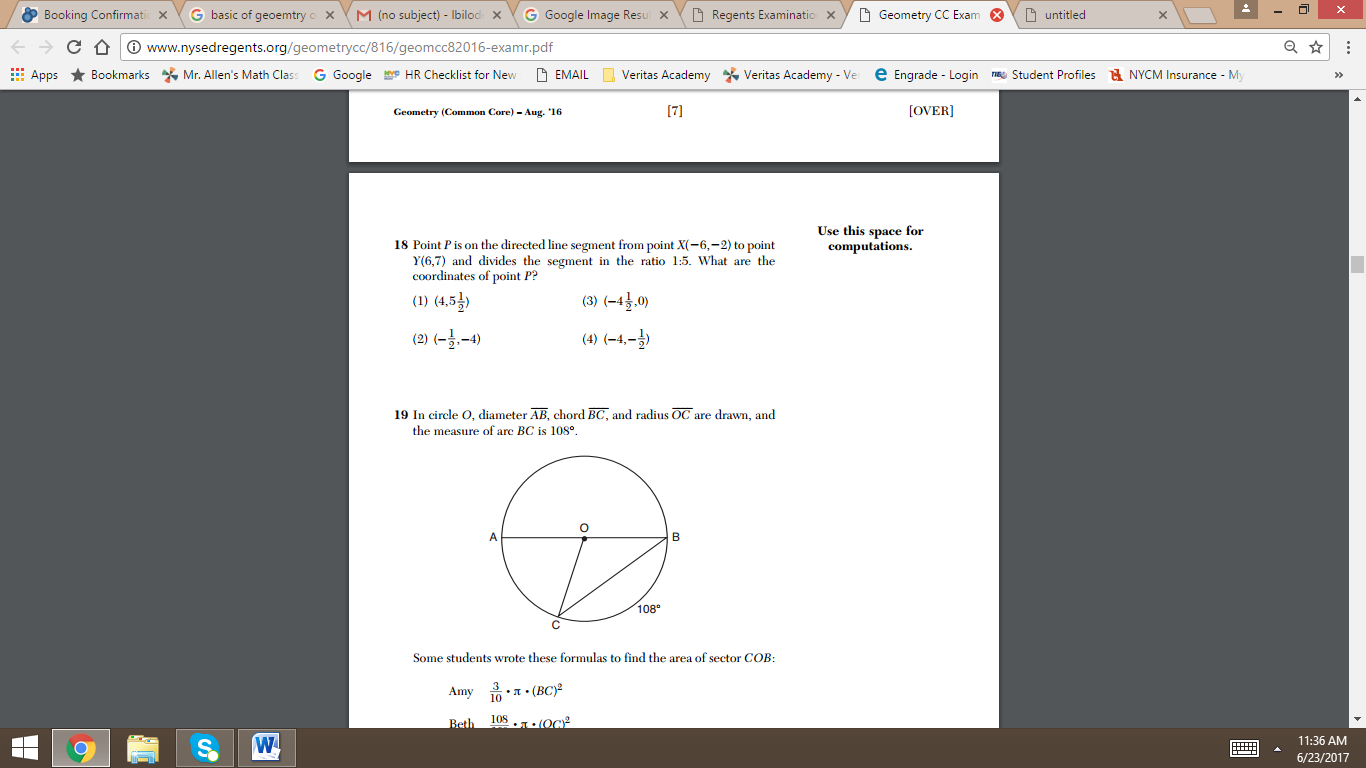
**Partitioning line segments**

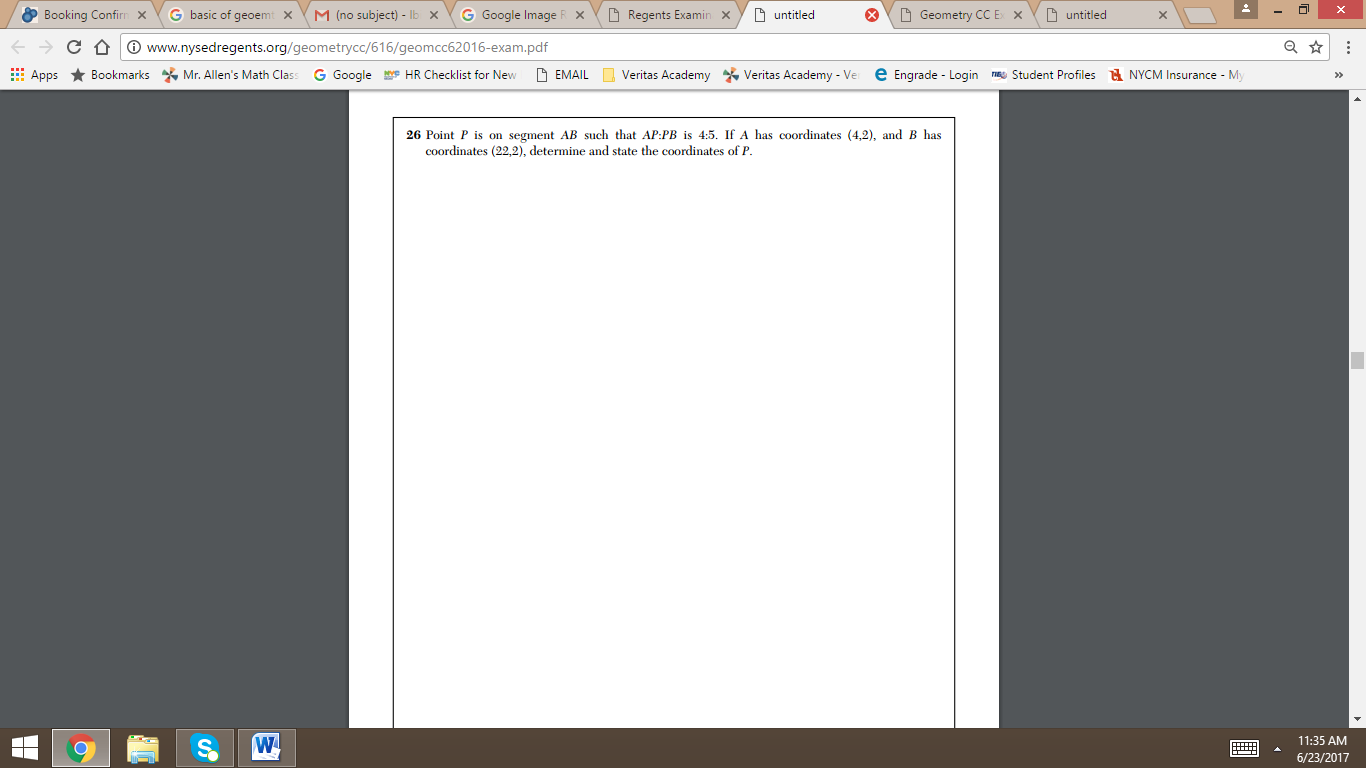
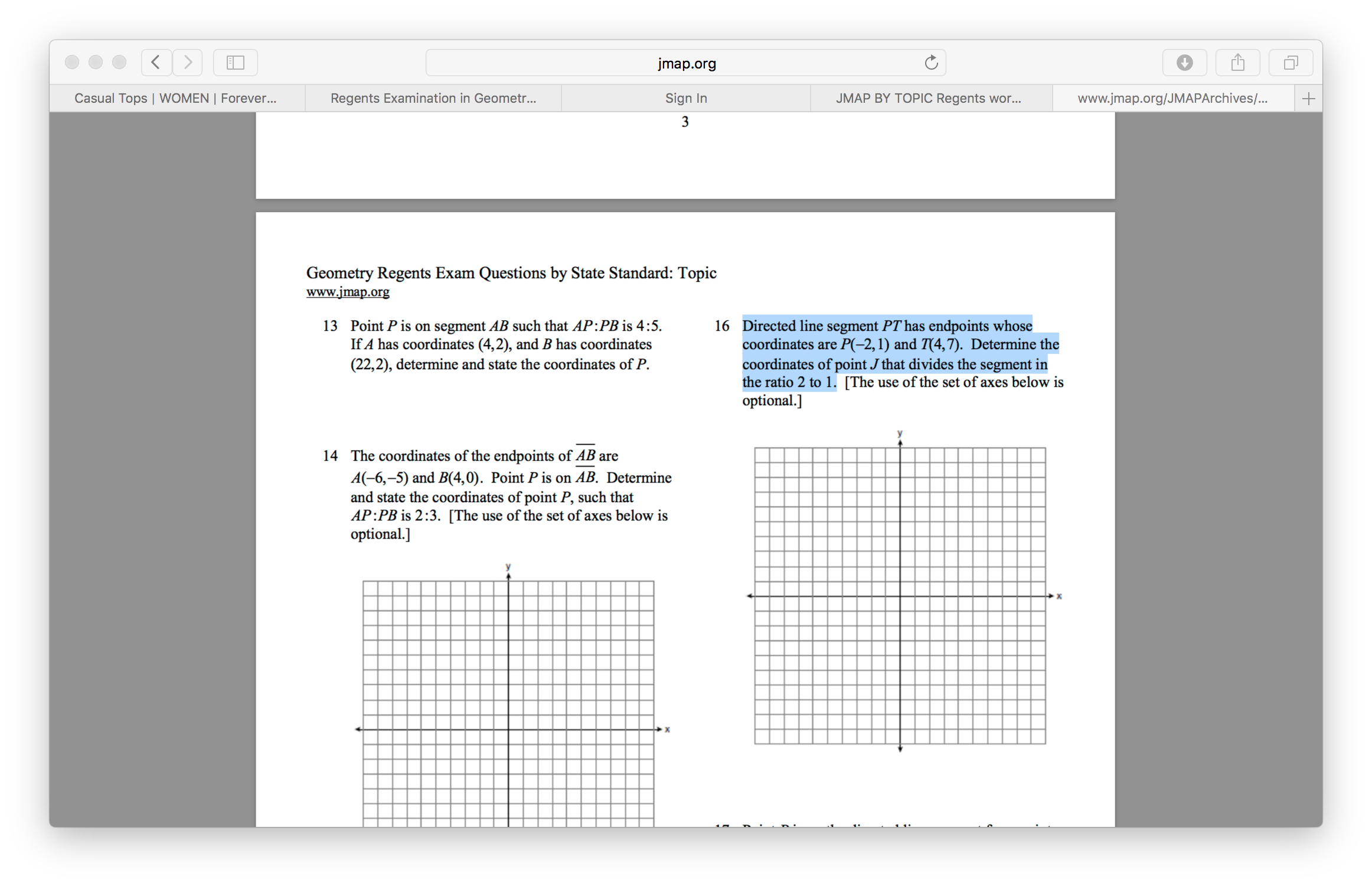
**where k is the ratio written as numerator/(numerator + denominator)**

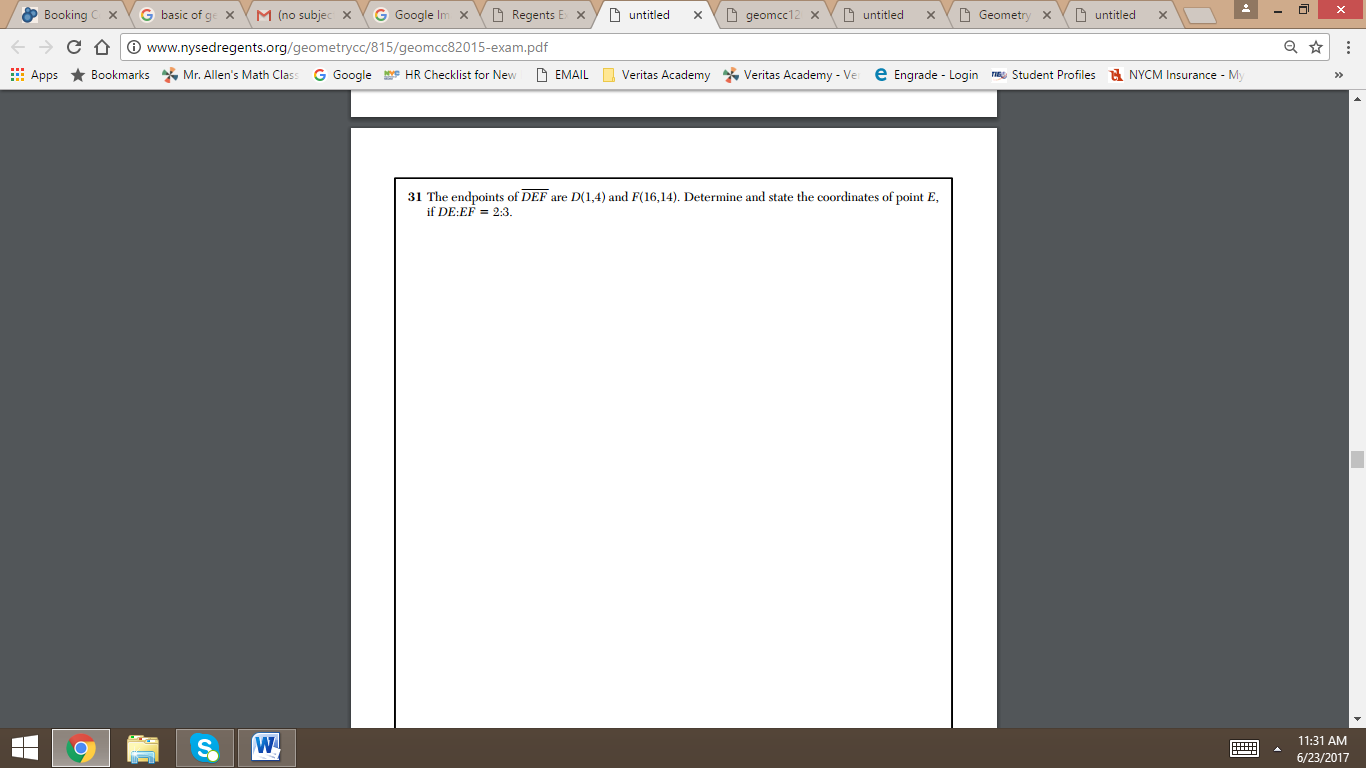
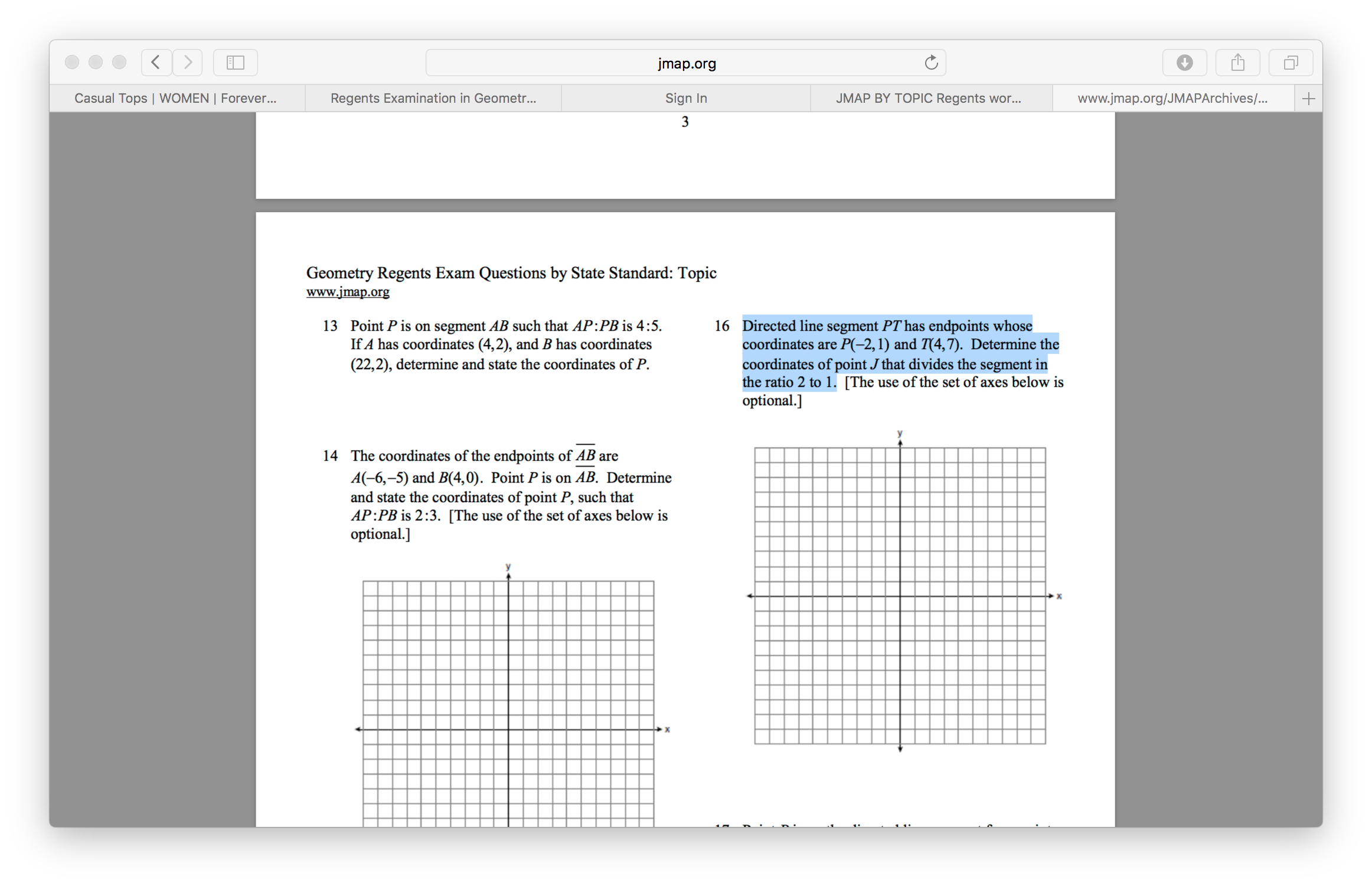








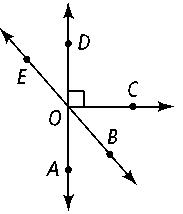




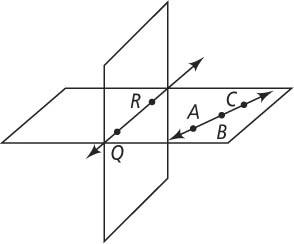
**Non-Regents Review for Unit Test # 1 Geometry**

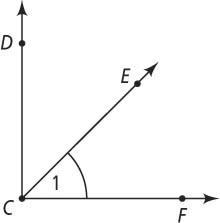


1. **Is point M a midpoint of LN? Explain!**

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1. **Name an angle or angles in the diagram described by each of the following.**
2. complementary to ∠*BOC \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*
3. supplementary to ∠*DOB \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*
4. adjacent and supplementary to ∠*AOC \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

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1. **Name the intersection of the two planes to the right.**
2. **Use the figure at the right for a – d.**
3. What are two other names for ∠1? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. If *m*∠*DCF =* 90, *m*∠*DCE =* 3*x +* 12 and *m*∠*FCE =* 4*x +* 1, find the value of x*.*
5. **Ray GI bisects** ∠**DGH so that the measure of** ∠**DGI is x-3 and the measure of** ∠**IGH is 2x – 13.**

**What is the value of x? \*\*Draw a picture.**

1. **If m1 = 3x + 40 and m2 = 5x - 20, solve for x if:**



a) ∠1 and ∠ 2 are *vertical angles* b) ∠1 and ∠2 form a *linear pair*

1. **Using the diagram to the right, name:**

2

* 1. one pair of vertical angles \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1

3

4

5

* 1. two linear pairs\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  2. two pairs of adjacent angles\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Find the midpoint of the segment with endpoints (-4, 8) and (6, -1).**
2. **What is the circumference and area of a circle whose center is (0, 0) and a point on the circle (2, 6).**
3. **What is the area and perimeter of a square with vertices (0, 2), (2, 0), (0, -2) and (-2, 0)?**