**Topic: Triangles with Angles**

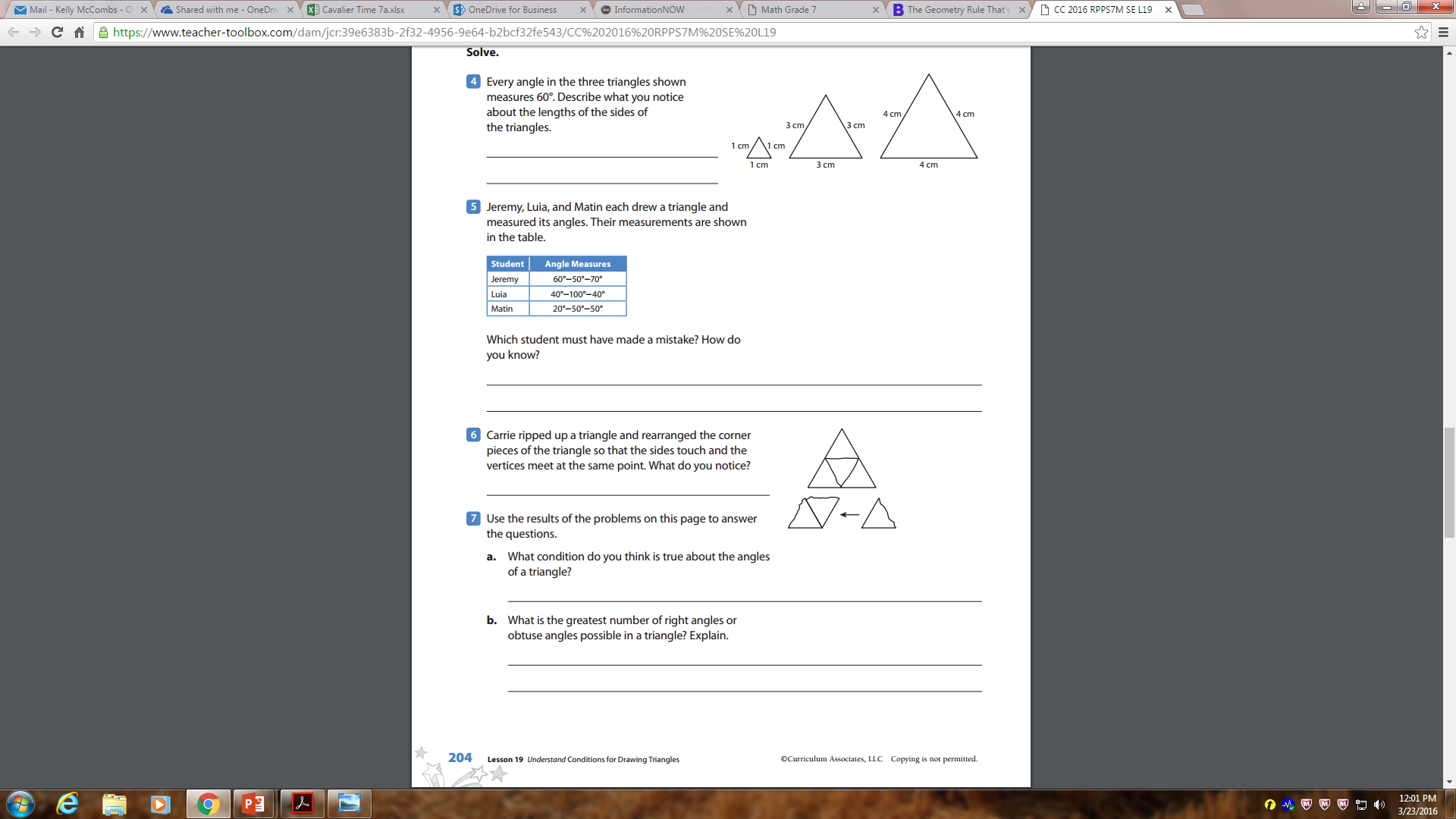
Angles:

* When you have 3 angles of a triangle, more than 1 triangle can be made (infinite triangles)
* The sum of the interior or a triangle must equal 180° (if you tore off all 3 corners and lined put the 3 corners together, it would make a straight line…exactly 180°)

**Does Makes a Triangle: Does NOT Make a Triangle:**

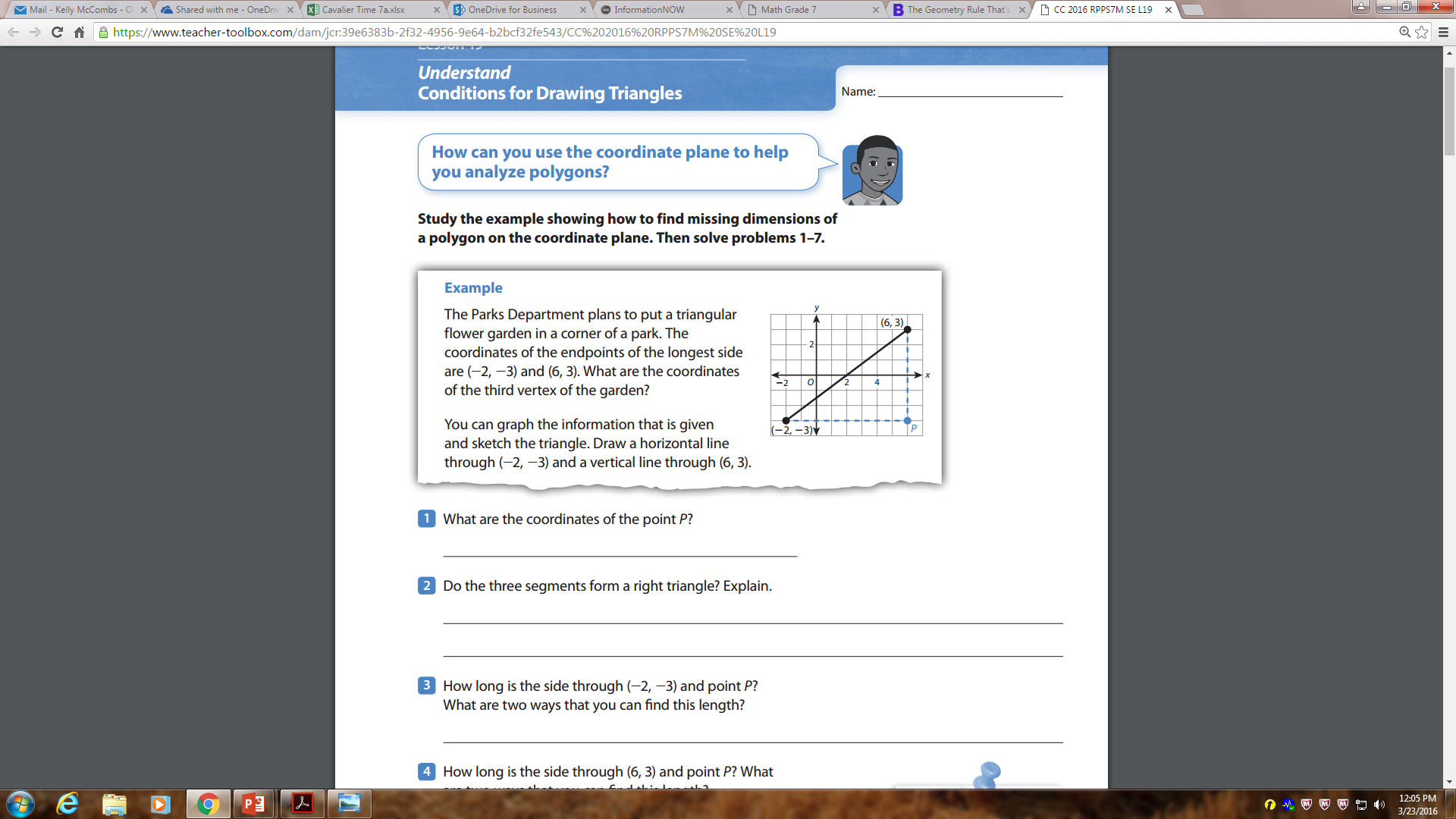
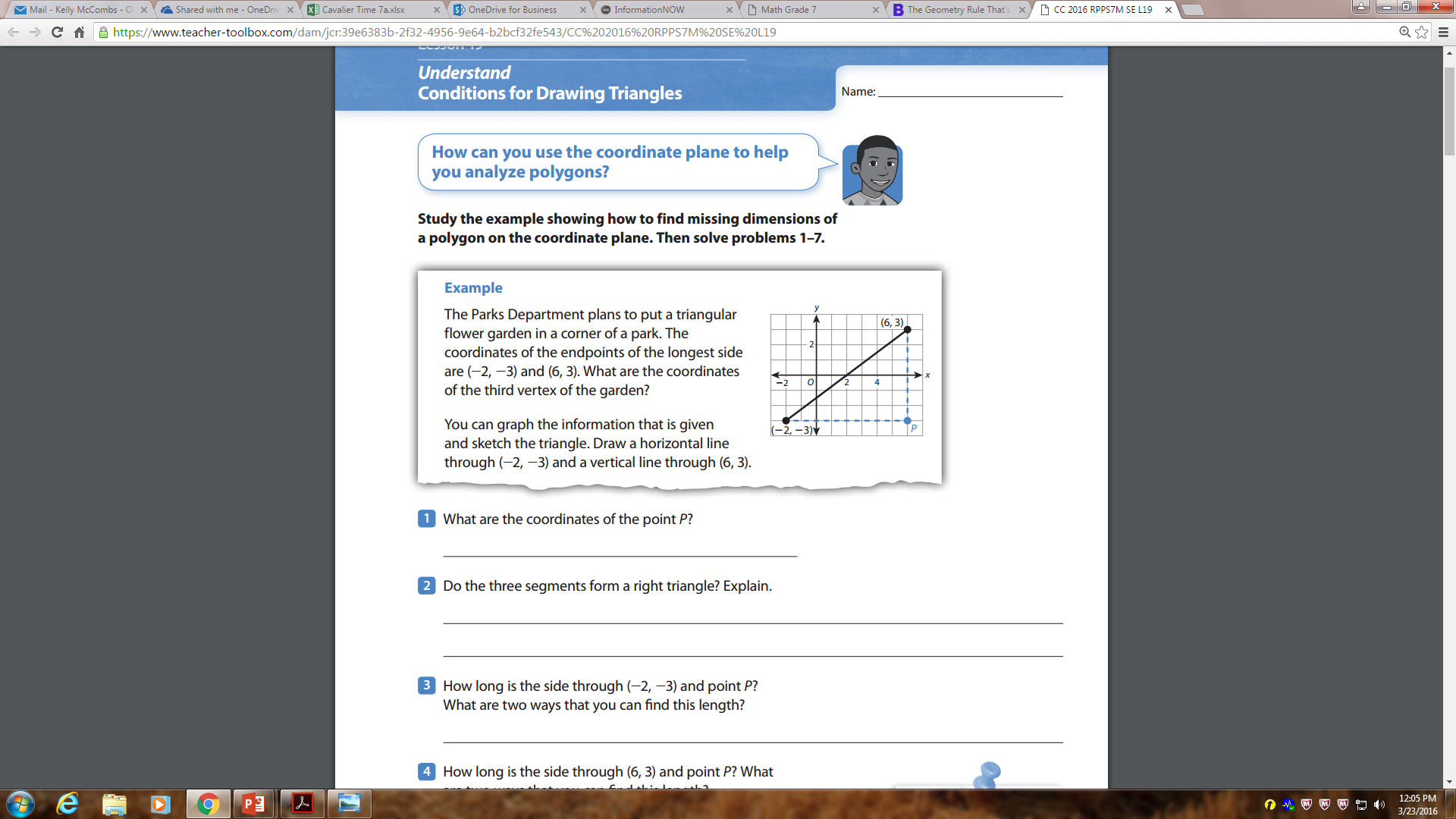
30° , 60° , 90° 60° , 60° , 90°

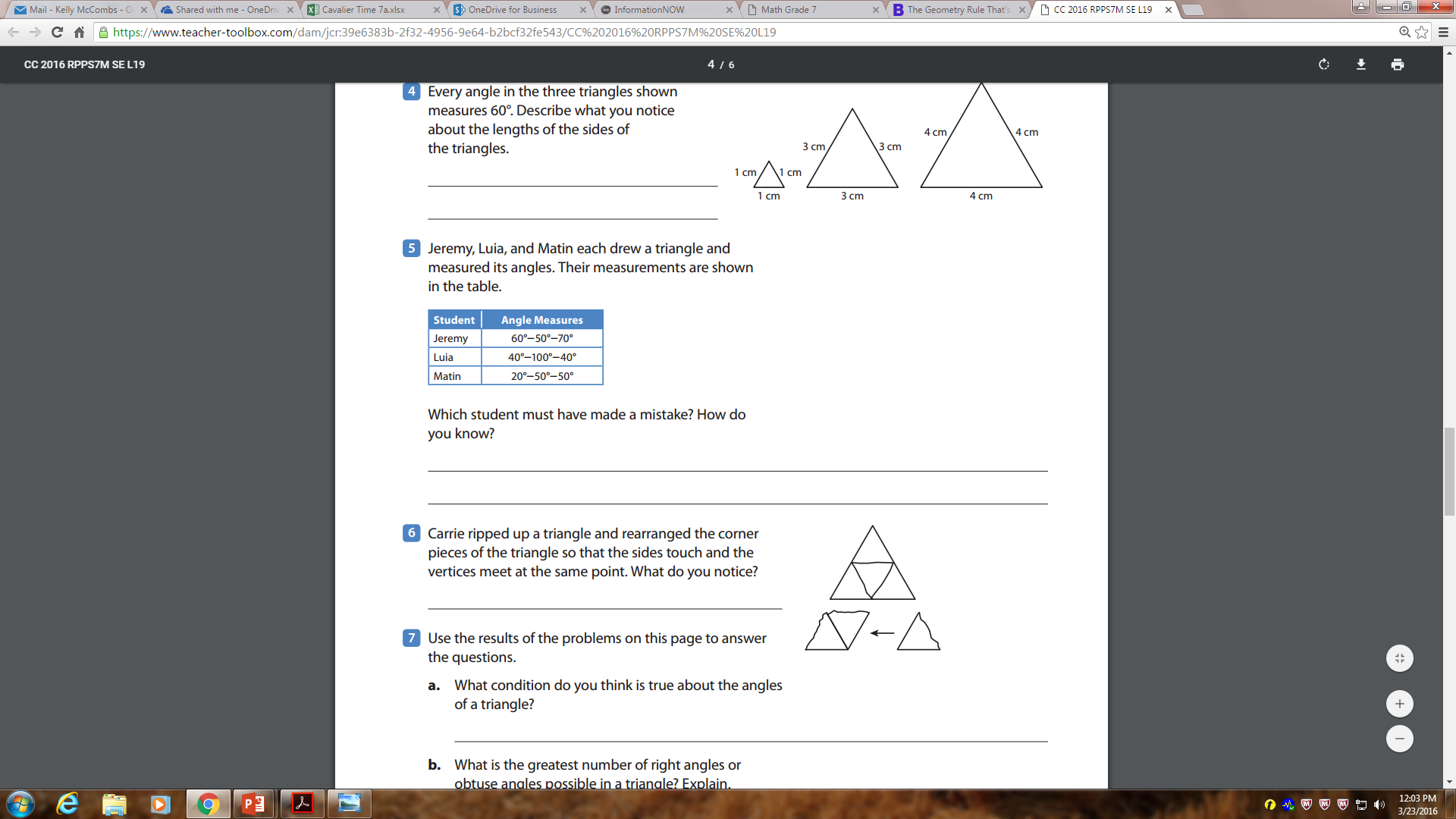
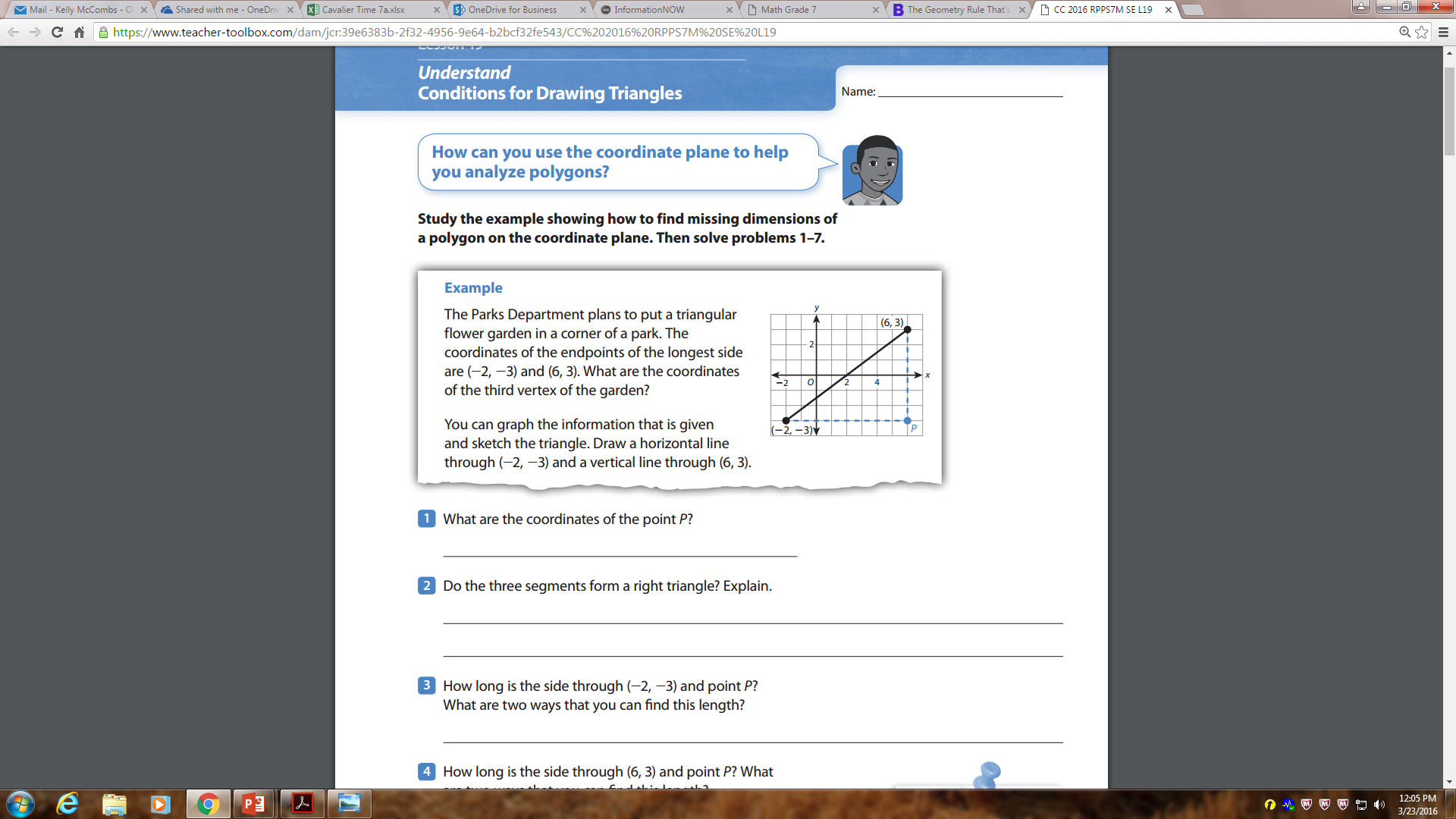
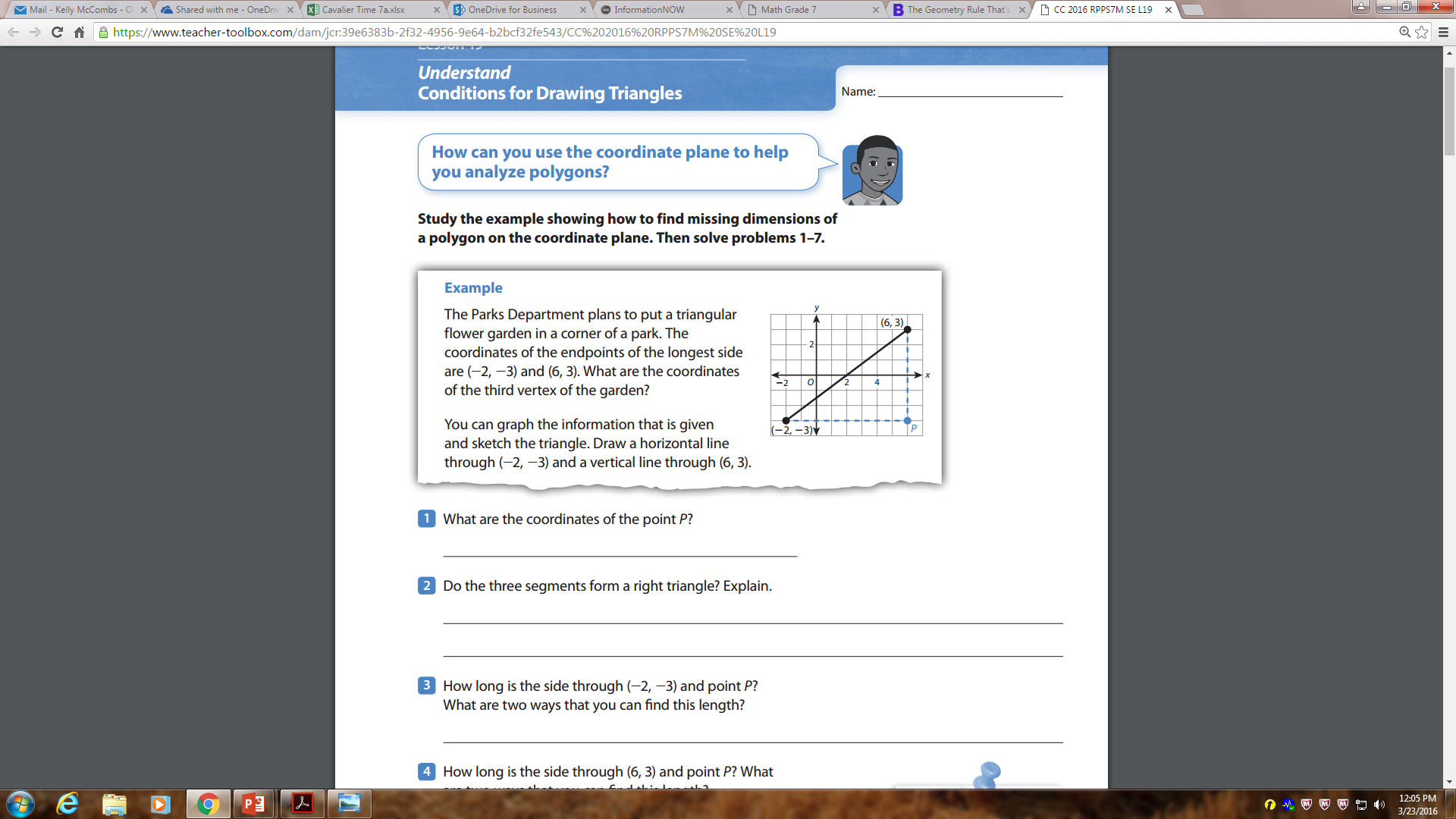
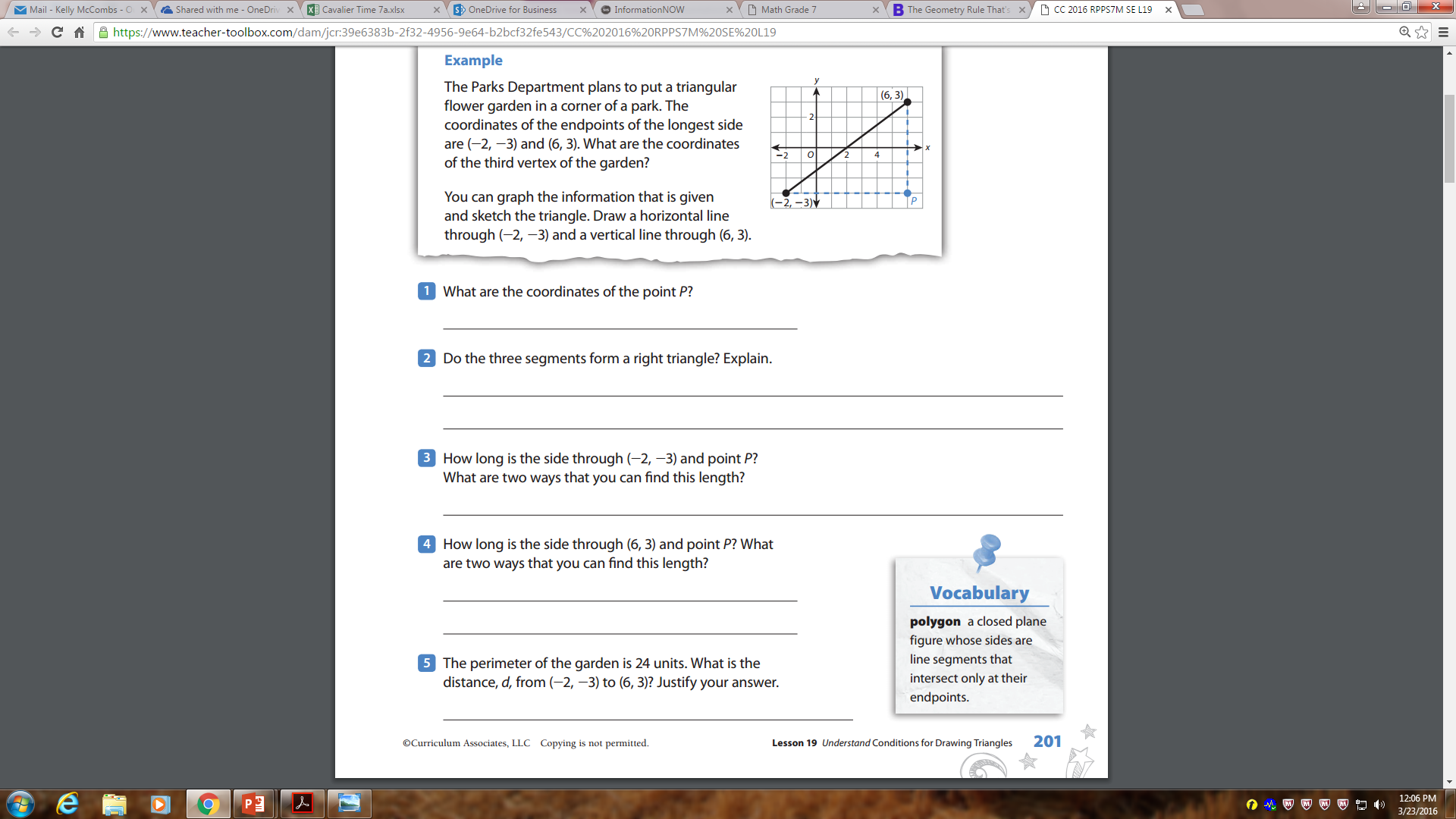
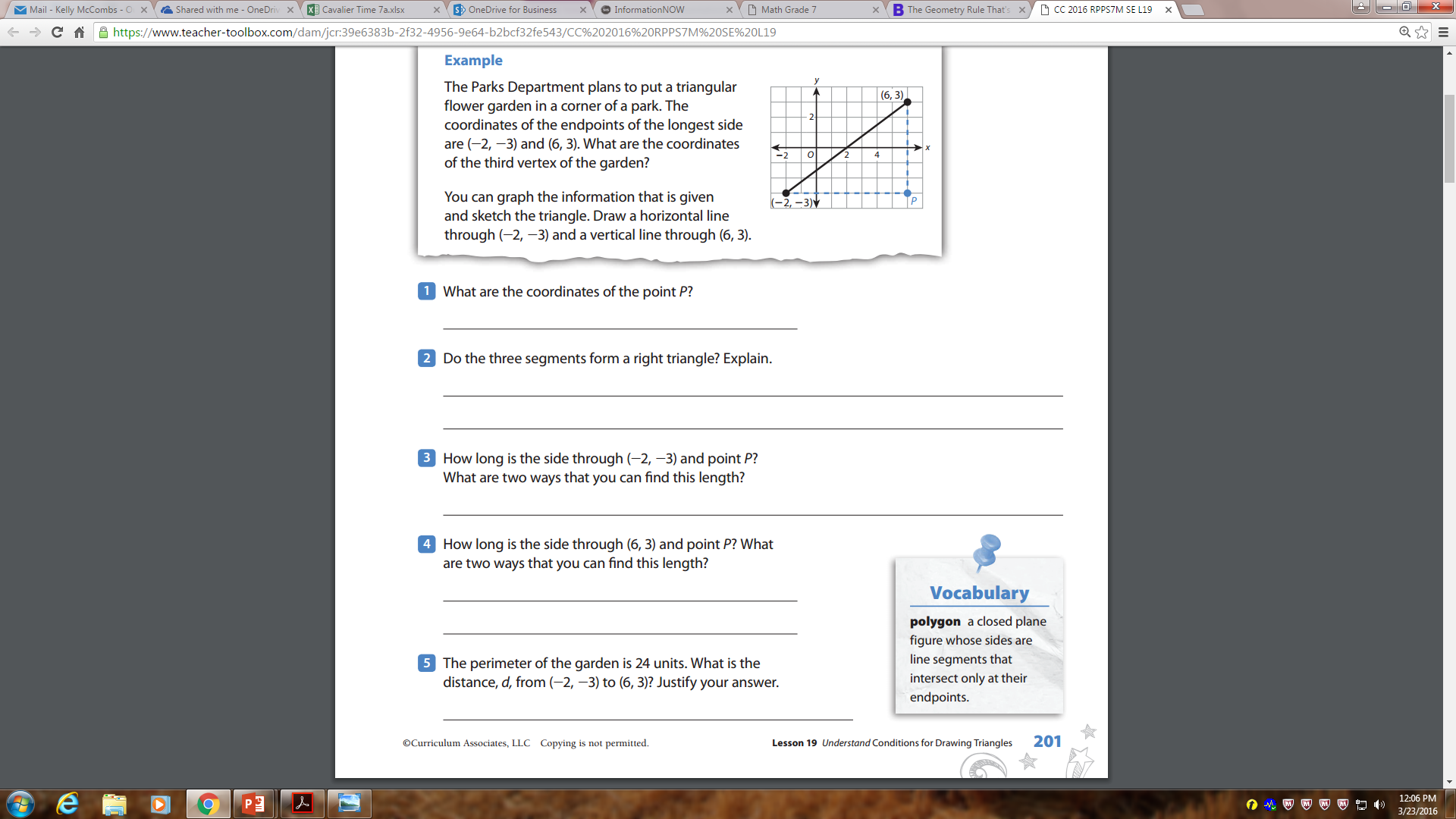
30 + 60 + 90 =180° 60 + 60 + 90 = 210



**Example:** Can you make a triangle with the following angles? **Show Work HERE**

1. 10° , 50° , 120° yes no why?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. 110° , 80° , 10° yes no why?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. 18° , 101° , 61° yes no why?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. 66° , 53° , 78° yes nowhy?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. 71° , 29° , 100° yes no why?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. 118° , 10° , 68° yes no why?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. 40° , 50° , 60° yes nowhy?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_





Show all work to prove your answer.