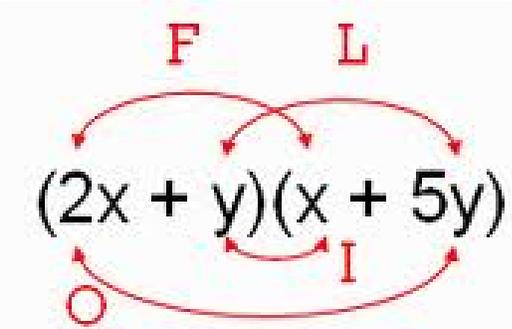
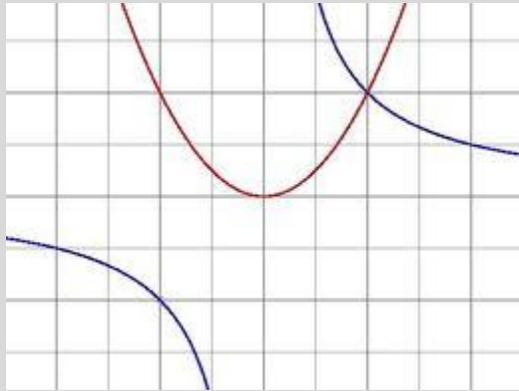


FOIL Around The School

Middle school Level

OVERVIEW	This lesson involves a fun, interactive way for students to learn the FOIL method, graphing exponents, and a fun app called Foursquare.
OBJECTIVES	Students will show that they understand the concepts of the FOIL method, along with the ability to be able to graph polynomial expressions and find their location.
MATERIALS	For this assignment, students will need a writing utensil, a polynomial worksheet which is to be provided, a phone in order to use Foursquare, and the graph worksheet.
PROCEDURES 	<ul style="list-style-type: none">• The first part of this lesson is to introduce the students to Foursquare. They should be told about what the app does, and also how to use it.• Have the students start with something easy such as checking themselves into your classroom.• After making sure that each student understands how to use the app Foursquare, start explaining the assignment• Tell the students that each of them is going to be given a specific worksheet with polynomial problems created specifically for them.



- For the rest of the class the students are to work out these polynomial problems as carefully as possible.
- At the end of this class period collect all of the students' papers and hold on to them for the next day.
- Hand everyone's papers back at the beginning of the next lesson along with the graph worksheet
- Explain the next part of this lesson to the students.
- Each student is to take the first and second problem they were working on and graph the answers on the paper.
- They then graph third and fourth problem and so on and so forth
- Once they are done graphing explain the last part of assignment
- In order for you to grade their work, they must go to all of the points of intersection and check in via Foursquare
- Tell the students that the room number they are to check into for each of the points of intersections is simply the x-coordinate of the point of intersection, followed by the y-coordinate. For example if you are in room 325 the point of intersection could be either (3,25) or (32,5).

EVALUATION

The students are evaluated both on their knowledge and capabilities of the foil method and on their graphing skills. If the student makes it to each spot that he or she was supposed to make it to, than he or she demonstrated that they know the knowledge that they need to.