Teacher – Mrs. Volynskaya Algebra 2 Halloween Project Due – Next Friday October 28

1. Use attached ditto with Halloween Cartesian ART pumpkin.

a) Number/ Mark each segment in the following manner – all segments with the positive slope will have an even number, all segments with the negative slope will have an odd number; segments with NO slopes will have letter V in front of the number (V1, V2…); segments with a slope equal to 0, will have a letter H in front of a number (H1, H2….)

b) Write the equations of ALL segments in the SLOPE-intercept form on the separate piece of paper in the following manner – First column – all segments with a positive slope, Second column – with a negative, third – with no slopes, and the last one – with a slope =0

c) If you choose to work with a partner, write your names next to each equation clearly indicating who wrote this or that equation.

d) decide which lines are parallel , which are perpendicular and write it clearly below all your equations.

1. Use attached ditto with an EMPTY Halloween Cartesian ART system of coordinates. First, plot and join all points with line segments.

After that, follow a), b), c) directions from above.

1. PART 3 – CREATE YOUR OWN HALLOWEEN ART Puzzle with clear directions –which points and in which order we have to connect to see your picture (use the given examples 1-2) and make sure to include the answer – your beautiful colorful picture ON THE SYSTEM OF COORDINATES