Algebra 2: CP
Southport High School
Spring 2020

Name: _____
Period: _____
Math Teacher: _____

E-Learning Plan (2/3)
March 18th
Cumulative Review #2

1. **(Section 1.3)** A plant's height measured in inches, *H*, increases over *t* years. The plant's height is represented by the linear equation *H(t)= 3t*+10.
   a. Explain what the slope in the equation represents.

   b. How many years will it take the plant to reach a height of 24 inches?

2. **(Section 1.4)** Solve the system of equations using *elimination*.
   $x + y = 0$
   $3x + 2y = 1$

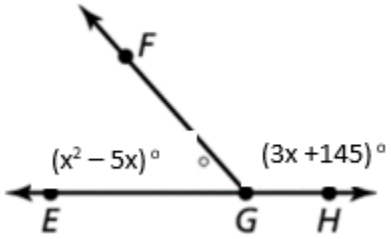
3. **(Section 1.4)** Solve the system of equations using *substitution*.
   $2x - 3y = 17$
   $x = 4y - 3$

4. **(Section 1.4)** Solve the 3x3 system of equations.
   $2x - 3y + z = 10$
   $y + 2z = 13$
   $3z = 15$

5. **(Section 1.4)** Carla and Diego bought t-shirts and baseball caps from the math cub fundraiser. Carla paid $55.00 for 2 t-shirts and 1 hat. Diego paid $90.00 for 3 t-shirts and 2 hats.
   a. Create a system of equations representing the situation.

   b. What is the price, in dollars, of a t-shirt?

6. **(Algebra 1)** Find the value of x. Remember, a linear pair is supplementary 😊



7. **(Section 3.2)** Simplify the complex expression.
   a. $4\mathrm{i}(-6 + \mathrm{i})$
   b. $(9 - 2i)(-4 + 7i)$

8. **(Section 3.2)** Solve the quadratic equations. Don't forget the +/- sign! Imaginaries?
   a. $x^2 - 16 = 0$
   b. $x^2 + 16 = 0$
   c. $4x^2 + 20 = -5$