

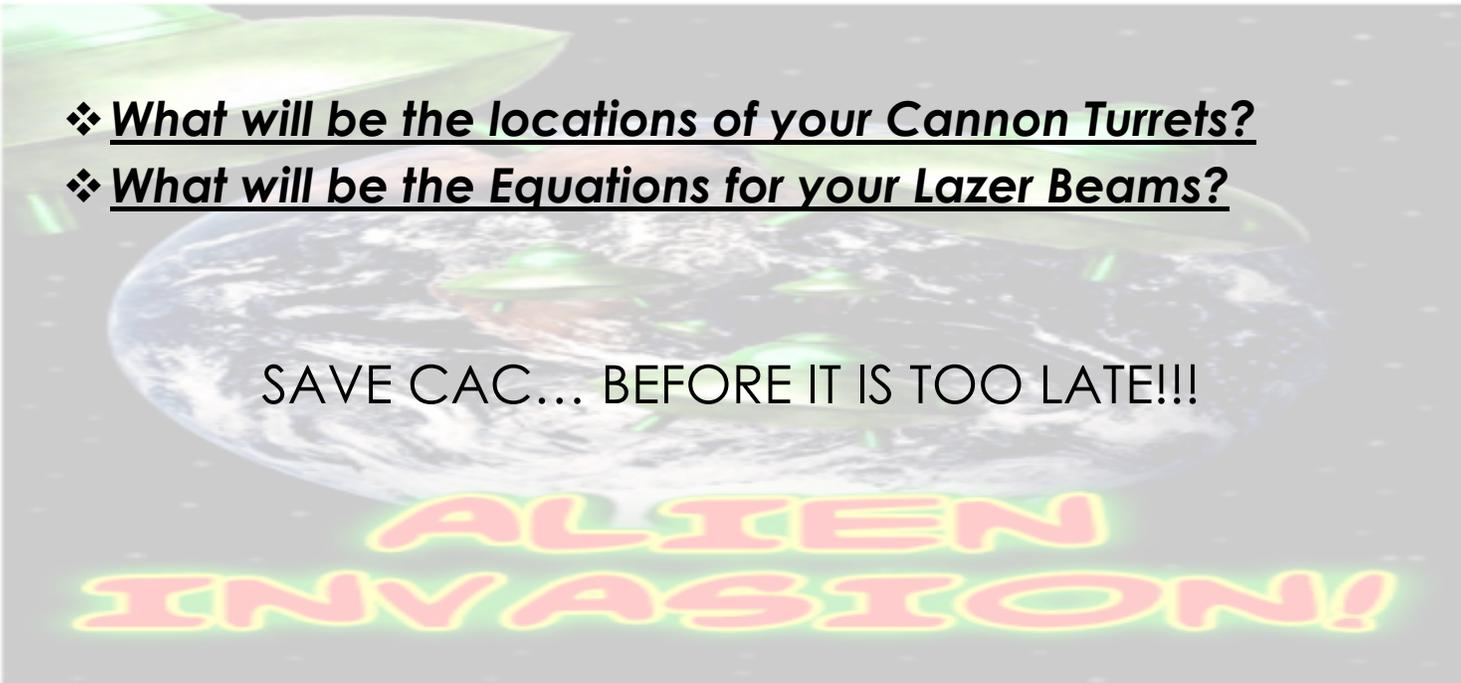


ALIENS ATTACK!!!

Defend CAC!!!

So the time has finally come for Aliens to Invade Earth!!! Bummer! They have decided to attack CAC and are currently bombing the campus. Luckily we have defenses... we just don't know where to put them. Here is your mission!!!

- You have 7-8 Cannon Turrets to place in the school (on x axis).
- Sadly each Cannon can only fire once. And you need to input the equation of Lazer Beam (equation of the line☺)
- Lastly you need to hit each bomb at least twice to destroy it! You have to do it all at once... SNEAK ATTACK!

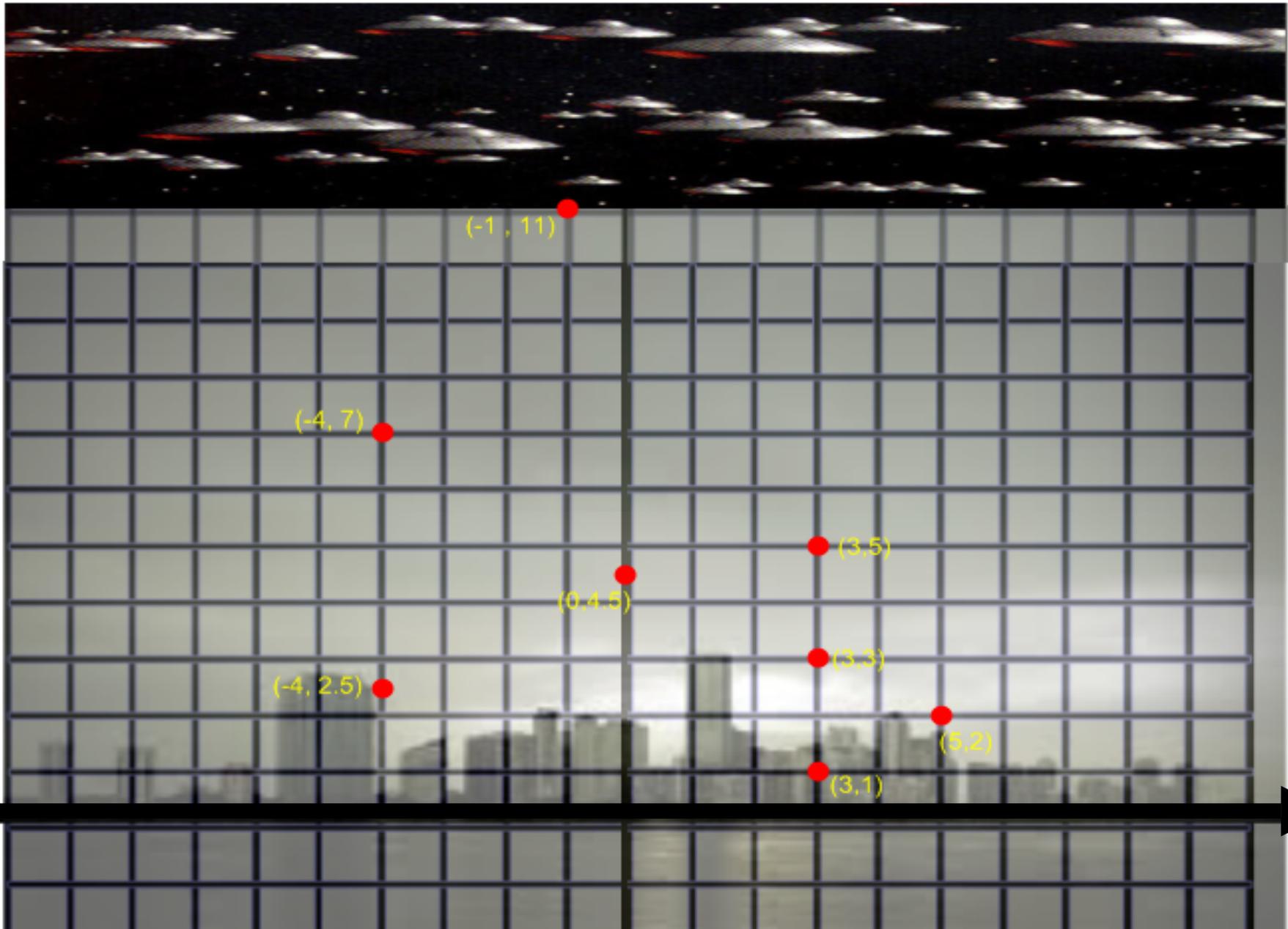


❖ **What will be the locations of your Cannon Turrets?**

❖ **What will be the Equations for your Lazer Beams?**

SAVE CAC... BEFORE IT IS TOO LATE!!!

ALIEN INVASION!

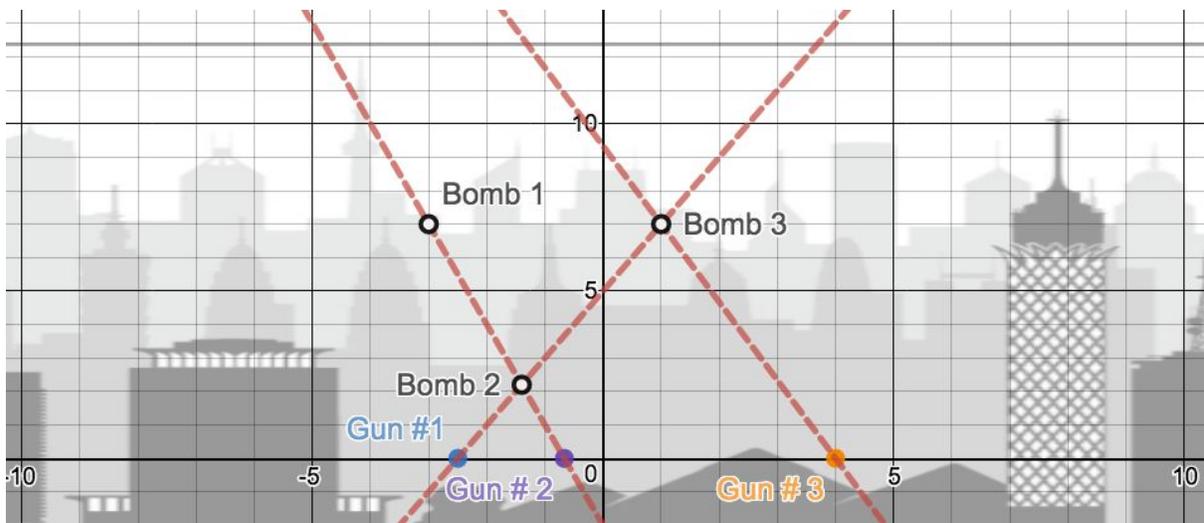


Task: ALIENS ATTACK!

So the time has finally come for Aliens to Invade Earth!!! Bummer! They have decided to attack CAIRO and are currently bombing the city. Luckily we have defenses... we just don't know where to put them. Here is your mission!!!

- You have 7 Cannon Turrets to place in the city (on x axis).
- Sadly each Cannon can only fire once.
- You need to input the equation of Laser Beam (equation of the line☺)
- You need to **directly** hit each bomb at least twice to destroy it!

Here is an example.



You need to take into consideration three things

1. Gun Positions (On the x -axis)
2. Equation of your Laser (remember you can only fire each laser once)
 - a. $x = b$
 - b. $y = mx + b$
 - c. $y - y_1 = m(x - x_1)$
3. Hitting each bomb twice
 - a. Bomb 1: Not Destroyed
 - b. Bomb 2 and 3: Destroyed

What will be the locations of your Guns?
What will be the Equations for your Laser Beams?

SAVE CAIRO BEFORE IT'S TOO LATE!!!!