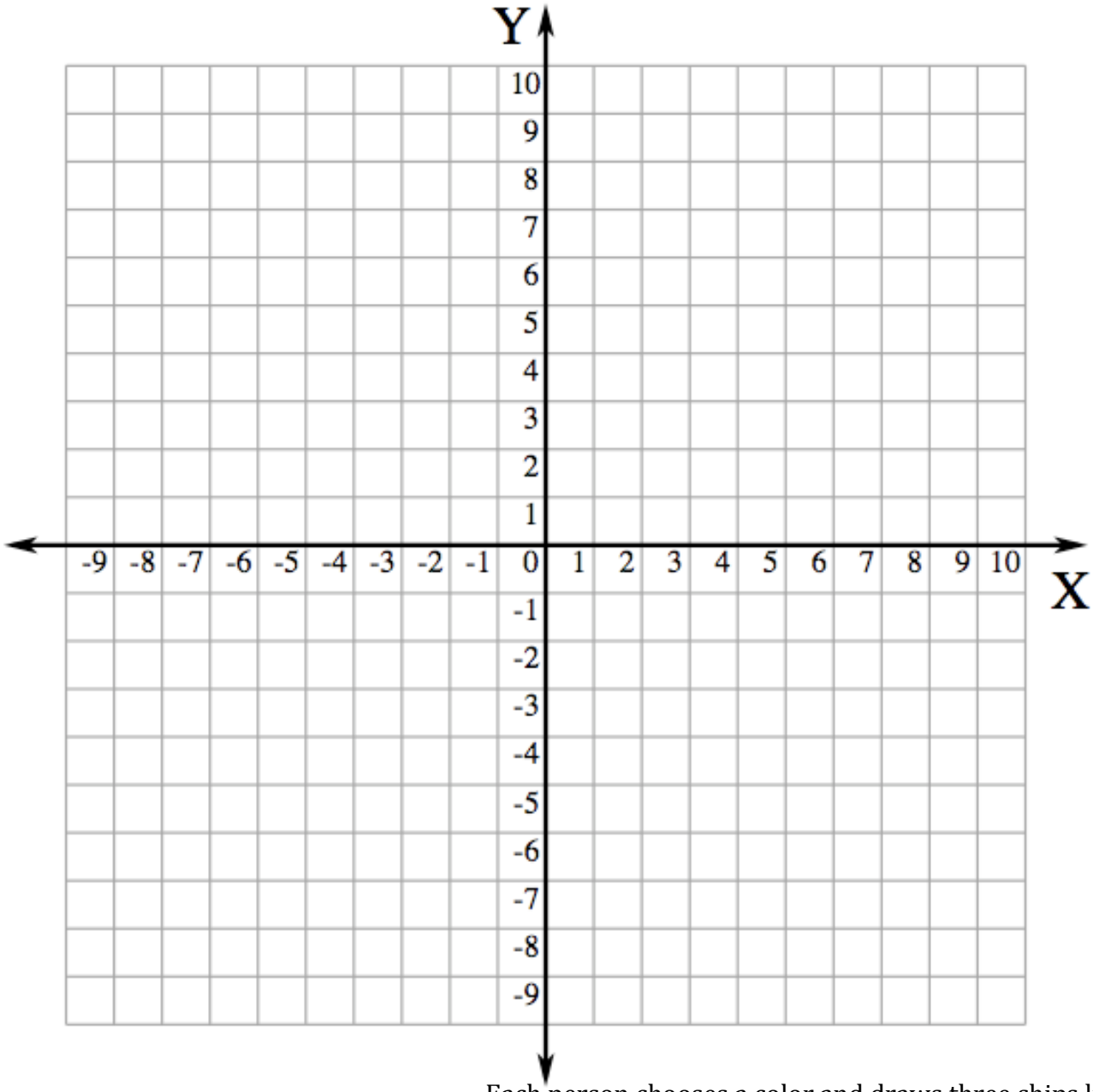
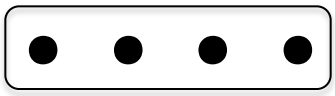
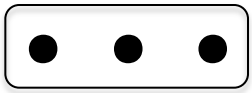
Slope-Intercept Form Battleship



Battleship 

Destroyer 

Submarine

Each person chooses a color and draws three ships like those on the left. Ships may be placed horizontally or vertically but not diagonally.

To get a hit, write an equation in slope-intercept form that crosses through a point that an enemy ship occupies. You may not use vertical or horizontal lines.

Graph the equation. Record your move on the chart.

You may hit more than one ship with a single line if you are clever! Mark an X on any points you've crossed. You cannot hit your own ship.

The winner sinks all of his opponent's boats first.

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Slope-Intercept Form Battleship

Player A
Name:
Color:
Equation 1: Ship ordered pairs:
Equation 2: Ship ordered pairs:
Equation 3: Ship ordered pairs:
Equation 4: Ship ordered pairs:
Equation 5: Ship ordered pairs:
Equation 6: Ship ordered pairs:
Equation 7: Ship ordered pairs:
Equation 8: Ship ordered pairs:
Equation 9: Ship ordered pairs:

Player B
Name:
Color:
Equation 1: Ship ordered pairs:
Equation 2: Ship ordered pairs:
Equation 3: Ship ordered pairs:
Equation 4: Ship ordered pairs:
Equation 5: Ship ordered pairs:
Equation 6: Ship ordered pairs:
Equation 7: Ship ordered pairs:
Equation 8: Ship ordered pairs:
Equation 9: Ship ordered pairs:

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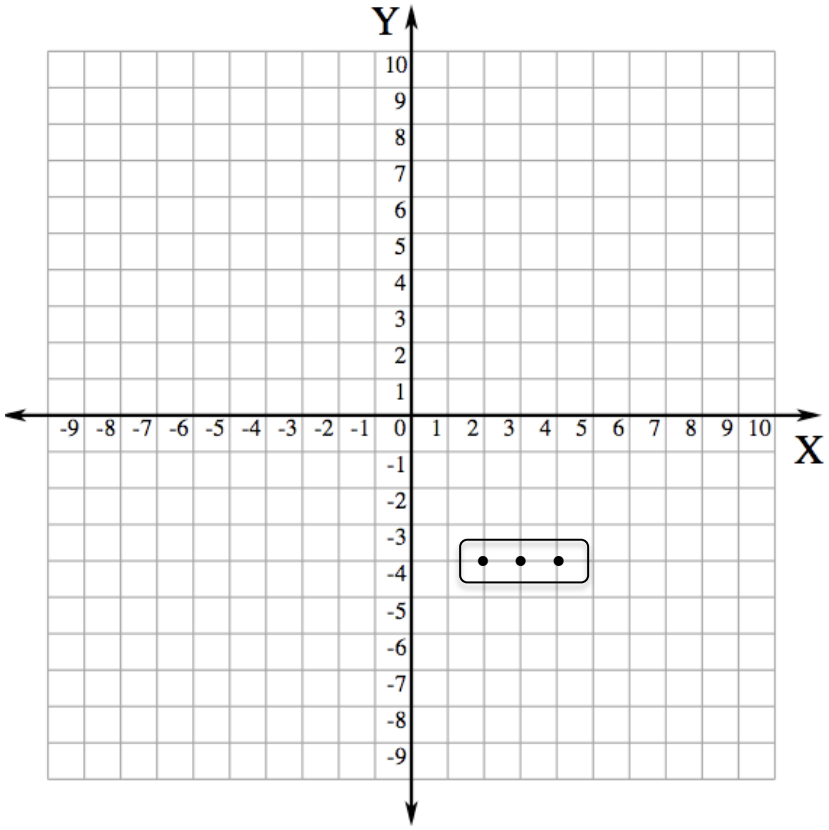
Slope-Intercept Form Battleship

You are playing the Slope-Intercept Form Battleship Game. Your opponent places a ship as shown below.



1. Write three equations in slope intercept form that you would use to sink this ship and tell what point on the ship they pass through.

A. _____ passes through _____

B. _____ passes through _____

C. _____ passes through _____

2. Graph the three equations on the coordinate plane above.

3. Explain in at least three complete sentences the strategy you used while playing this game. You might discuss where you placed your ships, what you thought about when writing your equations, or how your strategy changed while you played the game. Your answer should be based on the math you used.

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