**Problem 3.4**

**Integer Product Game Rules**
1. Player A puts a paper clip on a number in the factor list.
2. Player B puts the other paper clip on any number in the factor list including the number chosen by Player A. Player B then marks the product of the 2 factors on the product grid.
3. Player A moves *either one* of the paper clips to another number. He or she then marks the new product with a different color than Player B.
4. Each player takes turns moving a paper clip and marking a product. A product can only be marked by one player.
5. The winner is the first player to mark four squares in a row (up and down, across or diagonally).

**Factors:** -6 -5 -4 -3 -2 -1 1 2 3 4 5 6

**Integer Product Game Board**

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Play the Integer Product Game with positive and negative factors. Look for strategies for picking the factors and products.

**Part A**
What strategies did you find useful in playing the game? Explain.

**Part B**
What pair(s) of numbers from the list will give each product?
1. 5
2. -12
3. 12
4. -25
Accentuate the Negative

Part C
Your opponent puts a paper clip on -4. List 5 products that you can form. Tell where you need to put your paper clip in each case.

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Part D
Describe the moves to make in each case.

2. The paper clips are on -3 and -2. You want a product of -6.

3. Your opponent will win with 24. What numbers should you avoid with your paper clip moves?