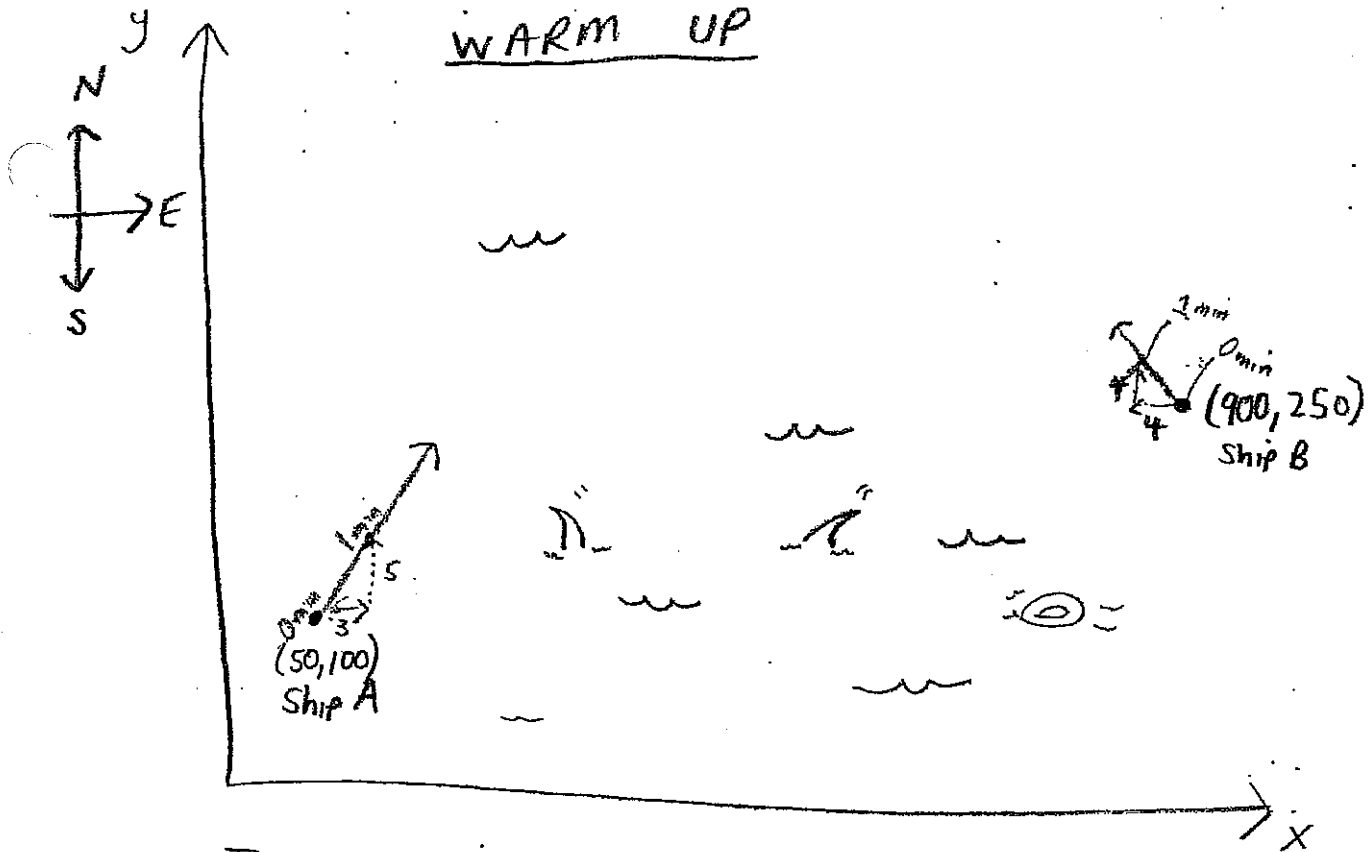


WARM UP



Two ships (ship A & ship B) are out at sea. Ship A is currently at $(50, 100)$ & travels in such a way that it moves 3 feet east & 5 feet north every minute. At the same time ship A is at $(50, 100)$, ship B is at $(900, 250)$ & moves 4 feet west & 4 feet north every minute.

If both ship captains choose not to alter their course, will the ships be in danger of crashing in to each other? Show mathematically why or why not!



