Design Recipe

A rocket leaves Earth, headed for Mars at 80 miles per second. **At the exact same time**, an asteroid leaves Mars traveling towards Earth, moving at 70 miles per second. If the distance from the Earth to Mars is 50,000,000 miles, how long will it take for them to meet?

I. Eve	Contract+F ery contract has						
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	collide	•	Number			-> Number	
	name			Domain		Range	
# Given the distance between a rocket (moving at 80mi/sec) & asteroid (70mi/sec), when will they							
	What does the function do?						
	collide?						
П.	Give Exam	oles					
Write an example of your function for some sample inputs							
	77 ' 7 ' (0)	•-	0 / 150				
	ollide(0)	is	0 / 150				
USE	the function here		What should	the function	i produce?		
C	ollide(2000)	is 2	2000 / 150				
	the function here	15 2	What should	the function	n produce?		
					- F		
C	ollide(5000)	is 5	000 / 150				
Use	the function here		What should	the function	n produce?		
	ollide(15000)	<u>1S 1</u>	5000 / 150	6			
USE	the function here		What should	the function	n produce?		
III. Definition							
Write the function, giving variable names to all your input values.							
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<u>C1</u>	nd						