Honors Core III – HW 14

1. How much 80% solution must be mixed with 40 ml of 10% solution to end up with a 35% solution?

2. How much 10% percent solution and how much 45% solution should be mixed together to obtain 100 gallons of 25% solution?

Find any horizontal and/or vertical asymptotes.

3.  4.  5.  6. 

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |
| 2 | -6 | 0 | 8 |
| 3 | 5 | 4 | 7 |
| 4 | 3 | 5 |  |
| 5 | 4 |  |  |

Complete the table, then use it to answer #7-12.

7. Find the average rate of change of  on  .

8. Given that  is continuous for all  , between which two values of  is there a guaranteed zero?

9. Given that  is one-to-one, what are the possible values for  ?

10.  11.  12. 

**TEXTBOOK:** 2.1) EX 23-44, 56\*, 57\*, 61-64\*, 67\*