HW 1

1. Solution -> Marty’s and Lydia’s relation will not be a function. Because both of them has 2 relations, when other has only one.

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1. Solution -> the correct answer will be a because in the second example x can not have two values, it should be just one, right now it will give one positive and one negative number.

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1. Solution -> First of all I would paste the meaning of Injective, Surjective and Bijective functions. The correct answer is 2 because the graph shows that 2,3 can be defined as a. So the surjective function means that it can have 2 same outputs.

Injective - Each input gives a different output.

Surjective - Every output is used by at least one input.

Bijective - Each input has its own output, and every output has one input.

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1. Solution -> The correct answer is 1 because every input will have a different output. But in teacher’s answers says that example 3 is also can be as an injective function. Yes, but I think it also can be a bijective where each input has their own output.

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1. Solution -> this function is correct

g(x) = 1/x -2

g(f(x)) = 1/x/1/x+2 = x + 2

g(f(x)) = (x +2) – 2 = x

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1. Solution -> Before that, I would like to put the meanings of Range, Domain and Inverse

Inverse - Inverses **swap inputs and outputs**.

The domain of f becomes the range of . The domain = all x-values that work.

The range of f becomes the domain of .

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