Quiz 2

Show all your work. Reasonable supporting work must be shown to earn credit. There are two sides to this quiz.

- 1. $(\S1.5 \#116)$ Let f be the function that associates the employee number x of each employee of the ABC Corporation with his or her annual salary f(x) in dollars.
 - (a) [1] Jodi's employee number is 12345. Interpret what f(12345) = \$40,000 means in terms of dollars and people.

Jodi makes a \$40,000 annual salary

correct @ terms & solong & Jada (25)

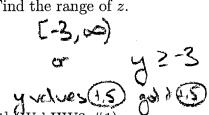
(b) [3] Suppose the employee making \$25,000 or more received a 3\% raise, while those making less than \$25,000 received a 9% raise. Write a function to describe these new salaries.

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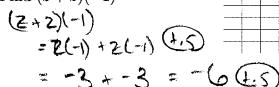
[(x) + .035(x) 15 (x)≥25,000 = {(x)} = {(x)} = 25,000 = {(x)} = {(x)} = 25,000 = {(x)} = {(x)

using 8(x) correctly 10 included passe sulling (the 1 in 1,03 exc) (5) proces assigned carectly (5) percentages connected to downeds (5)

- 2. Consider the graph of z below which is a parabola that has been shifted both vertically and horizontally.
 - (a) [1] (GraphTransformations #5) Find the range of z.



Find (z+z)(-1)



- (c) [1] (WebHW3 #3) Find $(z \circ z)(-1)$
 - (202)(-1)=2(2(-1))=2(3)=)
- (d) [3] (Fall2018 TMath120 Quiz2) Find the algebraic rule/expression of z

