*Review 3.2 and 3.3*

1. Each graph displays the graph of a basic function and its transformation, which appears

**boldfaced**. Assume each tick mark represents 1 unit. Identify the basic function,

and write the formula,, for the bolded function.

a. b.

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2. State the basic function and describe the transformations: .

3. Calculate the difference quotient for .

4. Let . Calculate the average rate of change from [3, 6].

5. a. Graph the given function. b. Find .

6. A part-time employee gets $12 per hour for working up to 20 hours per week. The employee gets $10.50 per hour plus a bonus of $8 a week for working more than 20 hours to a maximum of 32 hours a week. Write a piecewise-defined function that represents the weekly salary, , for hours.