**Section 2.2**

2. Sketch a graph of the piecewise defined function.

a.

b.

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4. A graph of a piecewise defined function is given. Find a formula for the function in the indicated form.



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1. Sketch a graph of the piecewise defined function.

a.

b.

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a. b.

 

3. A graph of a piecewise defined function is given. Find a formula for the function in the indicated form.



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5. Consider the following graphs. Use the Vertical Line Test to determine whether the curve is a graph of a function of . If the curve is a function, state the domain and range.

a. b.

 

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a. It does NOT pass the Vertical Line Test

so it is not a function.

b. It DOES pass the Vertical Line Test so it

is a function.

Domain:

Range:

7. Determine whether the equation defines as a function of .

a.

b.

c.

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a.

If you plug one number in for you get one number out for . So, this equation IS a function.

b.

If you plug one number in for you get two numbers out for . So, this equation is NOT a function.

c.

If you plug one number in for you get one number out for . So, this equation IS a function.

6. Consider the following graphs. Use the Vertical Line Test to determine whether the curve is a graph of a function of . If the curve is a function, state the domain and range.

a. b.

 

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8. Determine whether the equation defines as a function of .

a.

b.

c.

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