

3. Given the functions f , g , h , and j represented below, evaluate each value.

$$f(x) = \begin{cases} 3x + 5, & x < \frac{1}{2} \\ 2x + 1, & x \geq \frac{1}{2} \end{cases}$$

$$g(x) = \lfloor x \rfloor - 2$$

$$h(x) = \begin{cases} \sqrt{17x}, & x = 17 \\ -\frac{24}{x}, & x = 19 \\ 23 - x, & x \neq 17, 19 \end{cases}$$

$$j(x) = -\frac{1}{3}|x + 2| - 1$$

a. $f(3)$

$$f(3) = 2(3) + 1 = \boxed{7}$$

b. $g(1.8)$

$$g(1.8) = \lfloor 1.8 \rfloor - 2 = 1 - 2 = \boxed{-1}$$

c. $h(2)$

$$h(2) = 23 - 2 = \boxed{21}$$

d. $j(-5) = -\frac{1}{3}|-5 + 2| - 1$

$$= -\frac{1}{3}|-3| - 1 = -\frac{1}{3}(3) - 1 = \boxed{-2}$$

e. $h(17) = \sqrt{17 \cdot 17}$

$$= \boxed{17}$$

f. $g(-2.4)$

$$g(-2.4) = \lfloor -2.4 \rfloor - 2 = -3 - 2 = \boxed{-5}$$

g. $j(-2)$

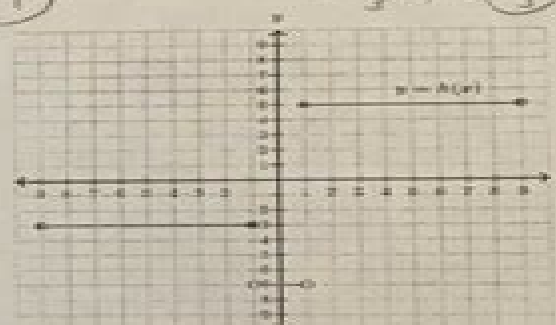
$$j(-2) = -\frac{1}{3}|-2 + 2| - 1 = \boxed{-1}$$

h. $f(\frac{2}{3})$

$$f(\frac{2}{3}) = 2(\frac{2}{3}) + 1 = \frac{4}{3} + 1 = \boxed{\frac{7}{3}}$$

4. Use the graph of $y = h(x)$ to match each expression with its value.

	-3	-7	5	Undefined
$h(-1)$	☒	☐	☐	☐
$h(0.999)$	☐	☒	☐	☐
$h(1.0001)$	☐	☐	☒	☐
$h(9)$	☐	☐	☒	☐



5. Suppose m and k are real numbers and let $g(x)$ be defined piecewise as follows: $g(x) = \begin{cases} \frac{1}{2}x + k, & x < 3 \\ mx + 2, & x \geq 3 \end{cases}$

a. Suppose $m = \frac{3}{2}$. What must the value of k be in order for the graph of $y = g(x)$ to be connected?

$$\frac{1}{2}(3) + k = \frac{3}{2}(3) + 2 \Rightarrow \frac{3}{2} + k = \frac{9}{2} + 2 \Rightarrow \frac{3}{2} + k = \frac{13}{2} \Rightarrow \boxed{k = 5}$$

b. Suppose $k = 4$. What must the value of m be in order for the graph of $y = g(x)$ to be connected?

$$\frac{1}{2}(3) + 4 = m(3) + 2 \Rightarrow \frac{3}{2} + 4 = 3m + 2 \Rightarrow \frac{11}{2} = 3m + 2 \Rightarrow 3m = \frac{5}{2} \Rightarrow \boxed{m = \frac{5}{6}}$$

6. **Bonus!** For some interesting graphs, try to graph these functions. (It will be helpful to evaluate for several values of x until you see a pattern.)

a. $f(x) = \frac{\lfloor x \rfloor}{x}$

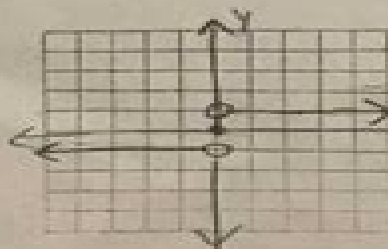
$$f(2) = \frac{\lfloor 2 \rfloor}{2} = \frac{2}{2} = 1$$

$$f(-1) = \frac{\lfloor -1 \rfloor}{-1} = \frac{-1}{-1} = 1$$

$$f(0) = \frac{\lfloor 0 \rfloor}{0} = \frac{0}{0} = 0$$

$$f(1) = \frac{\lfloor 1 \rfloor}{1} = \frac{1}{1} = 1$$

$$f(2) = \frac{\lfloor 2 \rfloor}{2} = \frac{2}{2} = 1$$



b. the "sawtooth" function: $g(x) = x - \lfloor x \rfloor$

$$g(0) = 0 - \lfloor 0 \rfloor = 0$$

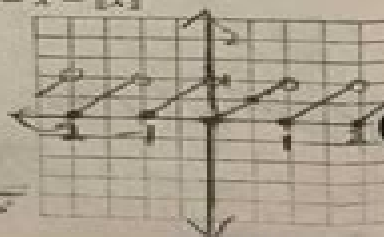
$$g(0.25) = 0.25 - \lfloor 0.25 \rfloor = 0.25$$

$$g(0.5) = 0.5 - \lfloor 0.5 \rfloor = 0.5$$

$$g(0.75) = 0.75 - \lfloor 0.75 \rfloor = 0.75$$

$$g(1) = 1 - \lfloor 1 \rfloor = 0$$

$$g(1.25) = 1.25 - \lfloor 1.25 \rfloor = 0.25$$



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Judd E. Hollander



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Table of Contents Answer Key Algebra 2 Checkpoint Quiz

1. Understanding the eBook Answer Key Algebra 2 Checkpoint Quiz
 - The Rise of Digital Reading Answer Key Algebra 2 Checkpoint Quiz
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key Algebra 2 Checkpoint Quiz
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answer Key Algebra 2 Checkpoint Quiz
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key Algebra 2 Checkpoint Quiz
 - Personalized Recommendations
 - Answer Key Algebra 2 Checkpoint Quiz User Reviews and Ratings
 - Answer Key Algebra 2 Checkpoint Quiz and Bestseller Lists
5. Accessing Answer Key Algebra 2 Checkpoint Quiz Free and Paid eBooks
 - Answer Key Algebra 2 Checkpoint Quiz Public Domain eBooks
 - Answer Key Algebra 2 Checkpoint Quiz eBook Subscription Services
 - Answer Key Algebra 2 Checkpoint Quiz Budget-Friendly Options

6. Navigating Answer Key Algebra 2 Checkpoint Quiz eBook Formats
 - ePub, PDF, MOBI, and More
 - Answer Key Algebra 2 Checkpoint Quiz Compatibility with Devices
 - Answer Key Algebra 2 Checkpoint Quiz Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer Key Algebra 2 Checkpoint Quiz
 - Highlighting and Note-Taking Answer Key Algebra 2 Checkpoint Quiz
 - Interactive Elements Answer Key Algebra 2 Checkpoint Quiz
8. Staying Engaged with Answer Key Algebra 2 Checkpoint Quiz
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer Key Algebra 2 Checkpoint Quiz
9. Balancing eBooks and Physical Books Answer Key Algebra 2 Checkpoint Quiz
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer Key Algebra 2 Checkpoint Quiz
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answer Key Algebra 2 Checkpoint Quiz
 - Setting Reading Goals Answer Key Algebra 2 Checkpoint Quiz
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answer Key Algebra 2 Checkpoint Quiz
 - Fact-Checking eBook Content of Answer Key Algebra 2 Checkpoint Quiz
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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