

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. $j(-2)$

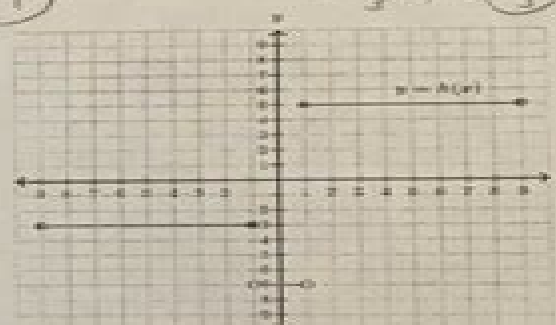
$$j(-2) = -\frac{1}{3}|-2 + 2| - 1 = \boxed{-1}$$

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

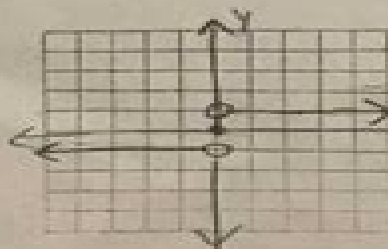
$$f(2) = \frac{\lfloor 2 \rfloor}{2} = \frac{2}{2} = 1$$

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

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

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

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



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

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

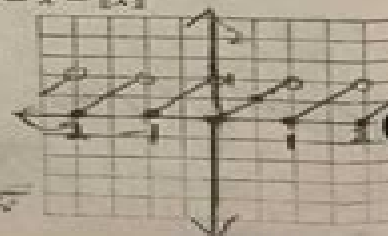
$$g(0.25) = 0.25 - \lfloor 0.25 \rfloor = 0.25$$

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

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

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

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



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Peipei Pang



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Table of Contents Algebra 2 Unit 08 Cscope Answer Key

1. Understanding the eBook Algebra 2 Unit 08 Cscope Answer Key
 - The Rise of Digital Reading Algebra 2 Unit 08 Cscope Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Algebra 2 Unit 08 Cscope Answer Key
 - 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 Algebra 2 Unit 08 Cscope Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Algebra 2 Unit 08 Cscope Answer Key
 - Personalized Recommendations

- Algebra 2 Unit 08 Cscope Answer Key User Reviews and Ratings
- Algebra 2 Unit 08 Cscope Answer Key and Bestseller Lists
- 5. Accessing Algebra 2 Unit 08 Cscope Answer Key Free and Paid eBooks
 - Algebra 2 Unit 08 Cscope Answer Key Public Domain eBooks
 - Algebra 2 Unit 08 Cscope Answer Key eBook Subscription Services
 - Algebra 2 Unit 08 Cscope Answer Key Budget-Friendly Options
- 6. Navigating Algebra 2 Unit 08 Cscope Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Algebra 2 Unit 08 Cscope Answer Key Compatibility with Devices
 - Algebra 2 Unit 08 Cscope Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Algebra 2 Unit 08 Cscope Answer Key
 - Highlighting and Note-Taking Algebra 2 Unit 08 Cscope Answer Key
 - Interactive Elements Algebra 2 Unit 08 Cscope Answer Key
- 8. Staying Engaged with Algebra 2 Unit 08 Cscope Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebra 2 Unit 08 Cscope Answer Key
- 9. Balancing eBooks and Physical Books Algebra 2 Unit 08 Cscope Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra 2 Unit 08 Cscope Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Algebra 2 Unit 08 Cscope Answer Key
 - Setting Reading Goals Algebra 2 Unit 08 Cscope Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Algebra 2 Unit 08 Cscope Answer Key
 - Fact-Checking eBook Content of Algebra 2 Unit 08 Cscope Answer Key

- 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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