

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.  $j(-2)$

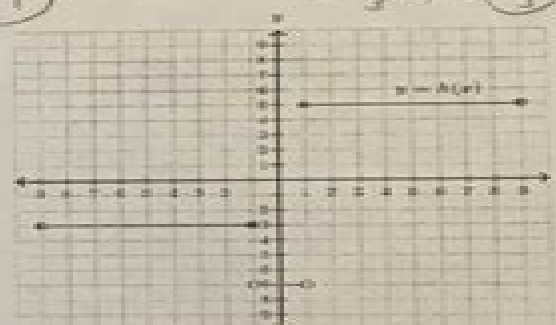
$$j(-2) = -\frac{1}{3}|-2 + 2| - 1 = \boxed{-1}$$

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
$h(-1)$	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
$h(0.999)$	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
$h(1.0001)$	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
$h(9)$	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>



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

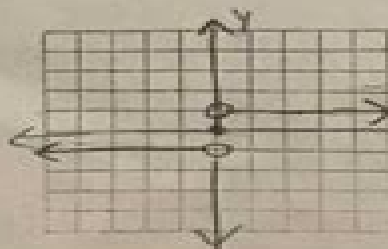
$$f(2) = \frac{\lfloor 2 \rfloor}{2} = \frac{2}{2} = 1$$

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

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

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

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



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

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

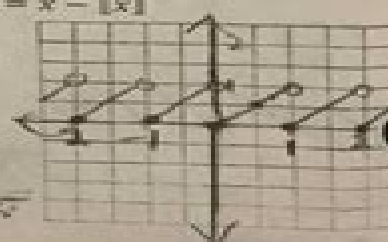
$$g(0.25) = 0.25 - \lfloor 0.25 \rfloor = 0.25$$

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

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

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

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



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### Table of Contents Geometry Hs Unit 7 Lesson Answer Key

1. Understanding the eBook Geometry Hs Unit 7 Lesson Answer Key
  - The Rise of Digital Reading Geometry Hs Unit 7 Lesson Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Hs Unit 7 Lesson 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 eBook Platform
  - User-Friendly Interface
4. Exploring eBook Recommendations from Geometry Hs Unit 7 Lesson Answer Key
  - Personalized Recommendations
  - Geometry Hs Unit 7 Lesson Answer Key User Reviews and Ratings
  - Geometry Hs Unit 7 Lesson Answer Key and Bestseller Lists
5. Accessing Geometry Hs Unit 7 Lesson Answer Key Free and Paid eBooks

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