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**Completing the Function Table**

8th Grade Linear Functions, Inequalities and Graphing: Function Tables: 8MS-6

Name: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_  
Period: \_\_\_\_\_

Use the function to complete the table.

- $f(x) = 7x$ 

x	f(x)
-1	
0	
1	
2	
3	
- $f(x) = x - 3$ 

x	f(x)
-2	
0	
2	
4	
7	
- $f(x) = -5x$ 

x	f(x)
1	
-3	
-1	
0	
0	
- $f(x) = -2x + 8$ 

x	f(x)
4	
-2	
0	
2	
3	
- $f(x) = \frac{2}{3}x$ 

x	f(x)
-6	
-3	
0	
3	
9	
- $f(x) = \frac{1}{2}x$ 

x	f(x)
4	
-2	
0	
0	
0	
- $f(x) = \frac{3}{4}x - 2$ 

x	f(x)
8	
-2	
2	
0	
0	
- $f(x) = 4 - 3x$ 

x	f(x)
1	
-3	
0	
0	
0	

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Class: \_\_\_\_\_ Date: \_\_\_\_\_

1.  $(x+3)^2 - 4 = 0$

$$(x+3)^2 - 4 = 0$$

$$(x+3)^2 = 4$$

$$\sqrt{(x+3)^2} = \sqrt{4}$$

$$x+3 = \pm 2$$

$$x+3 = 2 \quad \text{or} \quad x+3 = -2$$

$$x = 2 - 3 \quad \text{or} \quad x = -2 - 3$$

$$x = -1 \quad \text{or} \quad x = -5$$

2.  $(x-2)^2 + 5 = 0$

$$(x-2)^2 + 5 = 0$$

$$(x-2)^2 = -5$$

$$\sqrt{(x-2)^2} = \sqrt{-5}$$

$$x-2 = \pm \sqrt{-5}$$

$$x-2 = \pm i\sqrt{5}$$

$$x = 2 \pm i\sqrt{5}$$

3.  $(x+1)^2 - 9 = 0$

$$(x+1)^2 - 9 = 0$$

$$(x+1)^2 = 9$$

$$\sqrt{(x+1)^2} = \sqrt{9}$$

$$x+1 = \pm 3$$

$$x+1 = 3 \quad \text{or} \quad x+1 = -3$$

$$x = 3 - 1 \quad \text{or} \quad x = -3 - 1$$

$$x = 2 \quad \text{or} \quad x = -4$$

**CK-12 PreCalculus Concepts Answer Key**

Chapter 1: Functions and Graphs

Concept: Function Families

1.

2.

11.  $(x+3)^2 - 4 = 0$

$$(x+3)^2 - 4 = 0$$

$$(x+3)^2 = 4$$

$$\sqrt{(x+3)^2} = \sqrt{4}$$

$$x+3 = \pm 2$$

$$x+3 = 2 \quad \text{or} \quad x+3 = -2$$

$$x = 2 - 3 \quad \text{or} \quad x = -2 - 3$$

$$x = -1 \quad \text{or} \quad x = -5$$

**Probability Final Exam Review: Q. Quarter**

The Probability final exam consists of 10 questions. 7 of them are multiple choice. You get one point for each correct answer.

1.  $\cos(30^\circ)$     2.  $\sin(20^\circ)$     3.  $\cos(230^\circ)$     4.  $\sin(200^\circ)$

5.  $\cos\left(\frac{\pi}{6}\right)$     6.  $\sin\left(-\frac{\pi}{3}\right)$     7.  $\cos\left(-\frac{\pi}{4}\right)$     8.  $\sin\left(\frac{\pi}{2}\right)$

9.  $\cos\left(-\frac{\pi}{3}\right)$     10.  $\sin\left(-\frac{\pi}{4}\right)$     11.  $\cos\left(\frac{\pi}{6}\right)$     12.  $\sin\left(-\frac{\pi}{2}\right)$

13.  $\sin\left(\frac{\pi}{4}\right)$     14.  $\sin\left(\frac{\pi}{6}\right)$     15.  $\sin\left(-\frac{\pi}{4}\right)$

16.  $\sin(30^\circ)$     17.  $\sin(90^\circ)$     18.  $\sin\left(-\frac{\pi}{4}\right)$

Find the exact value (in decimals) or expression for the following:

19.  $\sin\left(\cos\left(-\frac{\pi}{3}\right)\right)$     20.  $\sin\left(\cos\left(\frac{\pi}{3}\right)\right)$     21.  $\sin\left(\cos\left(-\frac{\pi}{4}\right)\right)$

22.  $\sin\left(\cos\left(\frac{\pi}{6}\right)\right)$     23.  $\sin\left(\cos\left(\frac{\pi}{3}\right)\right)$     24.  $\sin\left(\cos\left(\frac{\pi}{2}\right)\right)$

25.  $\sin\left(\cos\left(\frac{\pi}{4}\right)\right)$     26.  $\sin\left(\cos\left(\frac{\pi}{6}\right)\right)$     27.  $\sin\left(\cos\left(\frac{\pi}{3}\right)\right)$

28.  $\sin\left(\cos\left(\frac{\pi}{2}\right)\right)$     29.  $\sin\left(\cos\left(\frac{\pi}{4}\right)\right)$     30.  $\sin\left(\cos\left(\frac{\pi}{6}\right)\right)$

1.1 Functions and Function Notation 1. yes yes. (Note: If two players had been tied for, say, 4th place, then the name would not have been a function of rank.) 6.  $y=f(x)=x^3$  2.  $y=f(x)=x^3$  2.9. yes, because each bank account has a single balance at any given time no, because several bank account numbers may have the same balance no, because the same output may correspond to more than one input. 10. Yes, letter grade is a function of percent grade; No, it is not one-to-one. There are 100 different percent numbers we could get but only about five possible letter grades, so there cannot be only one percent number that corresponds to each letter grade. 12. No, because it does not pass the horizontal line test. 1.2 Domain and Range 1.  $\{-5,0,5,10,15\}$   $\{-5,0,5,10,15\}$  3.  $(-\infty, 1/2) \cup (1/2, \infty)$   $(-\infty, 1/2) \cup (1/2, \infty)$  4.  $[-5, 2, \infty)$   $[-5, 2, \infty)$  5. values that are less than or equal to -2, or values that are greater than or equal to -1 and less than 3;  $\{x|x \leq -2 \text{ or } -1 \leq x < 3\}$  6.  $f^{-1}(x) = -x - 11$  2.  $f^{-1}(x) = -x - 11$  2

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