Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ CORE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SCORE \_\_\_\_\_/ \_\_10\_\_\_

Comparing Functions QUIZ

1. Which verbal representation matches the function table?

|  |  |
| --- | --- |
| **x** | **y** |
| **-1** | **-1** |
| **0** | **2** |
| **1** | **5** |
| **2** | **8** |

A. This function multiplies the input by 3 and then subtracts 4 from it. B. This function multiplies the input by 1 and then adds 2 to it. C. This function multiplies the input by 3 and then adds 2 to it. D. This function multiplies the input by 1 and then subtracts 2 from it.

2. Look at problem #1. Write the algebraic function for the table; y= \_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Which function has the greater rate of slope? \_\_\_\_\_ greater y-intercept \_\_\_\_\_\_

**** A. B. C. D.

|  |  |
| --- | --- |
| **x** | **Y** |
| **-1** | **2** |
| **1** | **3** |
| **3** | **4** |
| **5** | **5** |

Y = -3x +1 This functions multiplies the input

by 3 then subtracts 3 from it.

**OVER 🡪**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ CORE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SCORE \_\_\_\_\_/ \_\_10\_\_\_

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|  |  |
| --- | --- |
| **x** | **Y** |
| **1** | **2** |
| **2** | **3** |
| **3** | **4** |
| **4** | **5** |

**** Y = 2x +1 This functions multiplies the input

y 3 then subtracts 2 from it.

**OVER 🡪**

4. Compare which function has a greater rate of change.

** Graphical Algebraic**

y = 1/2x

Find the slope and y-intercept of each function:

4. Graphical: rate of change: \_\_\_\_\_ y-intercept \_\_\_\_\_

5. Algebraic: rate of change: \_\_\_\_ y-intercept \_\_\_\_\_

Circle correct ANSWER:

6. Which has a greater rate of change? **Graphical Algebraic**

7. Which has a greater y-intercept? **Graphical Algebraic**

4. Compare which function has a greater rate of change.

** Graphical Algebraic**

y = 2x

Find the slope and y-intercept of each function:

4. Graphical: rate of change: \_\_\_\_\_ y-intercept \_\_\_\_\_

5. Algebraic: rate of change: \_\_\_\_ y-intercept \_\_\_\_\_

Circle correct ANSWER:

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|  |  |
| --- | --- |
| **x** | **Y** |
| **1** | **2** |
| **2** | **3** |
| **3** | **4** |
| **4** | **5** |