Features of Functions book page 5 (you are using the computer to find answers to 15-22)

* Use Google Chrome and type in Desmos.com
* Click on the red tab – Start Graphing
* Click on the keyboard that looks like  at the bottom of the screen.
* In the box that looks like the example below, type in y = 10

 

* Click on the ab button on the expanded keyboard and type x ( you should see y= 10x 
* Press enter and another box should appear where you can type in y = 100000
* Once you have done these things correctly you should have the following on your screen.
* 
* You want to find out where the points intersect, so you may need to zoom out in order to find the intersection.
* The zoom out button is to the far right and looks like a subtraction sign. 
* Click on the place where the lines intersect and write down the solution to #14 in your book. (The x value)
* Clear the information you typed in boxes 1 and 2
* Type y = 3x + 7 in box 1
* Type y = 5x -21 in box 2
* Now two lines should be graphed. Find the point where these lines intersect by scrolling upwards on the graph.
* Click where the lines intersect and write the solution under #15 in your book
* Type y= -6x – 15 in box 1
* Type y = 4x + 35 in box 2
* Find the point of intersection of those lines and write down the solution under #16 in your book
* Type y= 5x – 8 in box 1
* Type y = 37 in box 2
* Find the point of intersection of those lines and write down the solution under #17 in your book
* Type y= 3x  (Remember to press  in order to get the exponent )
* Type y = 81 ( ZOOM IN to find the intersection of these lines)
* Find the point of intersection of those lines and write down the solution under #18 in your book
* Type y= 3x – 12 in box 1
* Type y = -4x +23 in box 2
* Find the point of intersection of those lines and write down the solution under #19 in your book
* Type y= 10 in box 1
* Type y = 2x- 22 in box 2
* Find the point of intersection of those lines and write down the solution under #20 in your book
* Type y= 243 in box 1
* Type y = 8x + 3 in box 2
* Find the point of intersection of those lines and write down the solution under #21 in your book
* Type y= 5x - 7 in box 1
* Type y = 118 in box 2
* Find the point of intersection of those lines and write down the solution under #22 in your book

**Features of Functions book page 9 (you are using the computer to find answers to 1-6)**

You will continue to use Desmos, but your solution will contain both the x and y value. (x,y)

* Clear the information you typed in boxes 1 and 2
* Type y = 2x - 7 in box 1
* Type y = -4x + 5 in box 2
* Click where the lines intersect and write both the x and y values by #1
* Type y= -5x – 2 in box 1
* Type y = -2x + 1 in box 2
* Find the point of intersection of those lines and write down the solution under #2 in your book
* Type y= -x – 2 in box 1
* Type y = 2x + 10 in box 2
* Find the point of intersection of those lines and write down the solution under #3 in your book
* Type y= x – 5 in box 1
* Type y = -x + 1 in box 2
* Find the point of intersection of those lines and write down the solution under #4 in your book
* Type y= 2/3x + 4 in box 1 ( remember the fraction bar / is division )
* Type y = -1/3x + 1 in box 2
* Find the point of intersection of those lines and write down the solution under #5 in your book
* Type y= x in box 1
* Type y = -x- 2 in box 2
* Find the point of intersection of those lines and write down the solution under #6 in your book

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* Go to desmos.com
* Click on classroom activities
* On the left side of the screen, click on Functions
* Under 1, click on function carnival
* Scroll down to the rocket ship and play the video.
* Draw a draw that fits the Cannon Man’s height v. time

**Relation** – a set of ordered pairs ex. (18, 4.25)(20, 4.4)(21, 5.25)(14, 5)(18,4.85)

**Domain-**x values in a relation ex.The domain for the relation above: {14,18,20,21}

**Range** – y values in a relation

ex. The range for the relation above:{4.25,4.4,4.85,5, 5.25}

**Function –** a relation that assigns exactly one value in the range to the value in the domain. ( For every x value there is only one y value; **x value does not repeat)**

Function or Not a Function?

|  |  |
| --- | --- |
| x | y |
| -1 | -2 |
| -2 | -3 |
| -3 | -4 |
| -4 | -4 |
| -5 | -6 |

|  |  |
| --- | --- |
| x | y |
| 3 | -1 |
| 3 | 0 |
| 4 | -1 |
| 4 | 2 |
| 5 | 0 |

|  |  |
| --- | --- |
| x | y |
| -1 | 3 |
| -1 | 4 |
| -1 | -2 |
| -1 | 2 |
| -1 | 0 |

{(5,1), (-1,5), (-5,1), (1,-5), (5,3)}

{(-3,0), (-2,0), (-1,0), (0,0), (1,0)}

{(1,4), (3,2), (-3,-2), (1,2), (-2,-3)}

|  |  |
| --- | --- |
| x | y |
| 1 | -2 |
| 4 | -3 |
| 6 | -4 |
| 8 | -4 |
| 1 | -6 |



