8h review

***Test Date*** August 31, 2018

***Part I*** Solve each equation by adding or subtracting show all steps (3pts each)

1. + m =

***Part II*** Solve each equation by multiplying and dividing show all steps (3pts each)

***Part III*** solve each multistep equation

***Part IV*** Solve each equation check your answer

1. 2.
2. 3.

***Part V*** solve each equation for the given variable.

1. The formula gives the floor area a in *a in square meters that* can be wired using *c* circuits.

a. solve for *c*

*b. if a room is 322 square meters, how many circuits are required to wire the room.*

1. The formula for a person’s typing speed is s= , where s is speed in words per minute, w is number of words typed and e is number of errors. solve this formula for e
2. solve for s
3. solve for a

***Part VI*** solve each absolute value equation

**Part VIII Write each inequality and words then graph them.**

|  |  |  |
| --- | --- | --- |
| Inequality | words | graph |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

Part IX Solve each inequality by adding or subtracting graphs your answer

Part X solve each inequality by Multiplying and Dividing Graph your answer

Part XI Solve each Multistep inequality (show all steps

Part XII. Read each situation and graph or construct a table of the given information

1. A shoe store is having a sale. The first pair of shoes sells for $40. The second pair sells for half price, or $20. The next pair sells for half of that, and so on. Make a table showing the cost of 1 to 4 pairs of shoes.
2. A pelican flies above the water searching for fish. Sketch a graph of its altitude from takeoff from shore to diving to the water to catch a fish. Label each section.

Part XIII Express each relationship as a table, a graph, and as a mapping diagram

1. (-1,2), (2, 4), 4, 5)

Part XVI Give the Domain and Range of each relation

|  |  |
| --- | --- |
| x | y |
| 3 | 9 |
| 5 | 20 |
| 2 | 4 |
| 8 | 40 |
| 6 | 36 |

Part XV Determine a relationship between X and Y values in each relation.

1.

|  |  |
| --- | --- |
| x | y |
| 1 | 5 |
| 2 | 10 |
| 3 | 15 |
| 4 | 20 |
| 5 | 25 |

2.

|  |  |
| --- | --- |
| x | y |
| 1 | -4 |
| 3 | 0 |
| 4 | 1 |
| 5 | 2 |
| 6 | 3 |

Part XVI Evaluate each function for every imput value

Part XVII Identify the dependent and independent variable

1. A company charges $10 an hour to rent go-cart
2. A small sized bottle of water costs $1.99 and a Large sized cost $3.49
3. A financial consultant charges $400 an hour
4. Gardeners buy fertilizers according to the size of the lawn.

Part XVIIII Graph each function for the given domain

2 . +2