Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_

Homework sheet: Alg2H

Relations, Functions, Domain and Range

1. Given the equation

 $y=|x-1|$ ,

 complete the below table, graph, domain and range, and whether the equation describes a function.



|  |  |
| --- | --- |
| x |  y |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

 Domain:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Range:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Function:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Given the equation

 $y=-2+\sqrt{16-x^{2}}$ ,

 complete the below table, graph, domain and range, and whether the equation describes a function.



|  |  |
| --- | --- |
| x |  y |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

 Domain:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Range:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Function:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Given the equation

 $h(t)=200+96⋅t-16⋅t^{2}$ ,

and the Domain

$$t\in \left[0,8\right]$$

 complete the below table, graph, range, and whether the equation describes a function.



|  |  |
| --- | --- |
| t |  H |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

 Domain:\_\_\_$ t\in \left[0,8\right]$\_\_\_

 Range:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Function:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

==== End ====