***Solution Section* 1.2– Functions**

***Exercise***

Determine whether each relation is a function and *find the domain and the range*.



***Solution***

***Not*** a function

***Domain***: {1, 3, 5}

***Range***: {2, 4, 6, 8}

***Exercise***

Determine whether each relation is a function and *find the domain and the range*.



***Solution***

It is a Function

***Domain***: {1, 3, 6, 8}

***Range***: {2, 4, 5}

***Exercise***

Determine whether each relation is a function and *find the domain and the range*.



***Solution***

It is ***not*** a function

***Domain*** = {2, 9}

***Range*** = {−5, 5, 4}

***Exercise***

Determine whether each relation is a function and *find the domain and the range*.



***Solution***

It is a function

***Domain*** = {−2, 0, 4, 5}

***Range*** = {−2, 1, 5, 7}

***Exercise***

Determine whether each relation is a function and *find the domain and the range*.



***Solution***

It is a function

***Domain*** = {−5, 0, 6}

***Range*** = {3}

***Exercise***

Determine whether each relation is a function and *find the domain and the range*.



***Solution***

It is ***not*** a function

***Domain*** = 

***Range*** = 

***Exercise***

Determine whether each relation is a function and *find the domain and the range*.



***Solution***

It is a function

***Domain*** = 

***Range*** = 

***Exercise***

Find the domain and the range of the relation:

{(5, 12.8), (10, 16.2), (15, 18.9), (20, 20.7), (25, 21.81)}

***Solution***

***Domain***: {5, 10, 15, 20, 25}

***Range***: {12.8, 16.2, 18.9, 20.7, 21.81}

***Exercise***

Let , find 

***Solution***





***Exercise***

Let , find 

***Solution***





***Exercise***

Let , find 

***Solution***







***Exercise***

Given: , find .

***Solution***

******

****

***Exercise***

Given: , find 

***Solution***



***Exercise***

Given: , find 

***Solution***









***Exercise***

Given that . Find 

***Solution***

 









***Exercise***

If , evaluate each of the following: 

***Solution***



= 25 + 10 + 7

= 42

 









***Exercise***

Find 

***Solution***































***Exercise***



|  |  |  |  |
| --- | --- | --- | --- |
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***Solution***

1. 
2. 





1. 



1. 



***Exercise***



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***Solution***

1. 
2. 





1. 



1. 

***Exercise***



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***Solution***

1. 
2. 





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1. 





***Exercise***



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***Solution***

1. 
2. 





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1. 



***Exercise***



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***Solution***

1. 
2. 



1. 



1. 





***Exercise***

For , determine

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***Solution***

1. 









1. 







1. 











***Exercise***

For , determine

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***Solution***

1. 





1. 



1. 



***Exercise***

For , determine

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|  |  |  |

***Solution***

1. 











1. 





1. 



***Exercise***

For , determine

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|  |  |  |  |

***Solution***

1. 
2. 



1. 



1. 



***Exercise***

For , determine

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| --- | --- | --- | --- |
|  |  |  |  |

***Solution***

1. 
2. 



1. 



1. 

