***Solution Section* 2.3 – Composition Functions**

***Exercise***

Given that  and , find ,  and their domain then find 

***Solution***

 *Domain:* 

= 2(**------------**) – 5





 *Domain:* 

***Domain****:* 

 *Domain:* 

= 





 *Domain:* 

***Domain****:* 



***Exercise***

Given that  and, find

1. 
2. 
3. 

***Solution***

1. 





1. 





1. 







***Exercise***

Given that  and, find

1. 
2. 
3. 

***Solution***

1. 









1. 









1. 







***Exercise***

Find : 

***Solution***



























***Exercise***

Find : 

***Solution***





















***Exercise***

Find : 

***Solution***















***Exercise***

Given 

1. Find  and the domain of 
2. Find  and the domain of 

***Solution***

1.  ***Domain***: 



 ***Domain***: 

***Domain***: 

1.  ***Domain***: 



 ***Domain***: 

***Domain***: 

***Exercise***

Given 

1. Find  and the domain of 
2. Find  and the domain of 

***Solution***

1.  ***Domain***: 



 ***Domain***: 

***Domain***: 

1.  ***Domain***: 



 ***Domain***: 

***Domain***: 

***Exercise***

Given 

1. Find  and the domain of 
2. Find  and the domain of 

***Solution***

1.  ***Domain***: 







 ***Domain***: 

***Domain***: 

1.  ***Domain***: 



 ***Domain***: 

***Domain***: 

***Exercise***

Given 

1. Find  and the domain of 
2. Find  and the domain of 

***Solution***

1.  ***Domain***: 





 ***Domain***: 

***Domain***: 

1.  ***Domain***: 





 ***Domain***: 

***Domain***: 

***Exercise***

Given 

1. Find  and the domain of 
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***Solution***

1.  ***Domain***: 





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***Domain***: 

1.  ***Domain***: 





 ***Domain***: 

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***Exercise***

Given 

1. Find  and the domain of 
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1.  ***Domain***: 







 ***Domain***: 

***Domain***: 

1.  ***Domain***: 





 ***Domain***: 

***Domain***: 

***Exercise***

Given 

1. Find  and the domain of 
2. Find  and the domain of 

***Solution***

1.  ***Domain***: 

 ***Domain***: 

***Domain****:* 

1.  ***Domain***: 

 ***Domain***: 

***Domain****:* 

***Exercise***

Given 

1. Find  and the domain of 
2. Find  and the domain of 

***Solution***

1.  ***Domain***: 

 ***Domain***: 

***Domain****:* 

1.  ***Domain***: 

 ***Domain***: 

***Domain****:* 

***Exercise***

Given 

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2. Find  and the domain of 

***Solution***

1.  ***Domain***: 

 ***Domain***: 

***Domain****:* 

1.  ***Domain***: 

 ***Domain***: 

***Domain****:* 

***Exercise***

Given 

1. Find  and the domain of 
2. Find  and the domain of 

***Solution***

1.  ***Domain***: 



 ***Domain***: 

***Domain****:* 

1.  ***Domain***: 



 ***Domain***: 

***Domain****:* 

***Exercise***

Given 

1. Find  and the domain of 
2. Find  and the domain of 

***Solution***

1.  ***Domain***: 



 ***Domain***: 

***Domain****:* 

1.  ***Domain***: 



 ***Domain***: 

***Domain****:* 

***Exercise***

Given 

1. Find  and the domain of 
2. Find  and the domain of 

***Solution***

1.  



 

***Domain***: 

1.  

 

***Domain***: 

***Exercise***

Given 

1. Find  and the domain of 
2. Find  and the domain of 

***Solution***

1.  

 





***Domain***: 

1.  

 

***Domain***: 

***Exercise***

Given 

1. Find  and the domain of 
2. Find  and the domain of 

***Solution***

1.  ***Domain***: 





 ***Domain***: 

***Domain****:* 

1.  ***Domain***: 



 ***Domain***: 

***Domain****:* 

***Exercise***

Given 

1. Find  and the domain of 
2. Find  and the domain of 

***Solution***

1.  ***Domain***: 





 ***Domain***: 

***Domain****:* 

1.  ***Domain***: 





 ***Domain***: 

***Domain****:* 

***Exercise***

Given 

1. Find  and the domain of 
2. Find  and the domain of 

***Solution***

1.  ***Domain***: 







 ***Domain***: 

***Domain****:* 

1.  ***Domain***: 











 ***Domain***: 

***Domain****:* 

***Exercise***

Given 

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2. Find  and the domain of 

***Solution***

1.  ***Domain***: 





 ***Domain***: 

***Domain****:* 

1.  ***Domain***: 



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***Exercise***

Given 

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1.  ***Domain***: 





 ***Domain***: 

***Domain****:* 

1.  ***Domain***: 



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***Domain****:* 

***Exercise***

Given 

1. Find  and the domain of 
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1.  ***Domain***: 



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***Domain****:* 

1.  ***Domain***: 

 ***Domain***: 

***Domain****:* 

***Exercise***

Given 

1. Find  and the domain of 
2. Find  and the domain of 

***Solution***

1.  ***Domain***: 





 ***Domain***: 

***Domain****:*  

1.  ***Domain***: 





 ***Domain***: 

***Domain****:*  

***Exercise***

Given 

1. Find  and the domain of 
2. Find  and the domain of 

***Solution***

1.  ***Domain***: 









***Domain****:* 

1.  ***Domain***: 









***Domain****:* 

***Exercise***

Given 

1. Find  and the domain of 
2. Find  and the domain of 

***Solution***

1.  ***Domain***: 





 ***Domain***: 

***Domain****:* 

1.  ***Domain***: 





 ***Domain***: 

***Domain****:* 

***Exercise***

Given 

1. Find  and the domain of 
2. Find  and the domain of 

***Solution***

1.  ***Domain***: 







 ***Domain***: 

***Domain***: 

1.  ***Domain***: 







 ***Domain***: 

***Domain***: 

***Exercise***

Given 

1. Find  and the domain of 
2. Find  and the domain of 

***Solution***

1. 

 ***Domain***: 





 ***Domain****:*

***Domain:***  

1. 

 ***Domain***: 



 ***Domain***: 

***Domain:***  

***Exercise***

Given 

1. Find  and the domain of 
2. Find  and the domain of 

***Solution***

1.  ***Domain***: 



 ***Domain***: 

***Domain****:* 

1.  ***Domain***: 



 ***Domain***: 

***Domain****:* 

***Exercise***

Given 

1. Find  and the domain of 
2. Find  and the domain of 

***Solution***

1.  ***Domain***: 





 ***Domain***: 

***Domain****:* 

1.  ***Domain***: 



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***Domain****:* 

***Exercise***

Given 

1. Find  and the domain of 
2. Find  and the domain of 

***Solution***

1.  ***Domain***: 







 ***Domain***: 

***Domain****:* 

1.  ***Domain***: 







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***Domain****:* 

***Exercise***

Given 

1. Find  and the domain of 
2. Find  and the domain of 

***Solution***

1.  ***Domain***: 







 ***Domain***: 

***Domain****:* 

1.  ***Domain***: 







 ***Domain***: 

***Domain****:* 

***Exercise***

Given 

1. Find  and the domain of 
2. Find  and the domain of 

***Solution***

1.  ***Domain***: 



 ***Domain***: 

***Domain****:* 

1.  ***Domain***: 







 ***Domain***: 

***Domain****:* 

***Exercise***

Given 

1. Find  and the domain of 
2. Find  and the domain of 

***Solution***

1.  ***Domain***: 



 ***Domain***: 

***Domain****:* 

1.  ***Domain***: 







 ***Domain***: 

***Domain****:* 

***Exercise***

Evaluate each composite function, where : 

***Solution***











***Exercise***

Evaluate each composite function, where : 

***Solution***











***Exercise***

Evaluate each composite function, where : 

***Solution***











***Exercise***

Evaluate each composite function, where : 

***Solution***











***Exercise***

Evaluate each composite function, where : 

***Solution***











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Evaluate each composite function, where : 

***Solution***











***Exercise***

Evaluate each composite function, where : 

***Solution***











***Exercise***

Evaluate each composite function, where : 

***Solution***











***Exercise***

Evaluate each composite function, where : 

***Solution***









***Exercise***

Evaluate each composite function, where : 

***Solution***











***Exercise***

Evaluate each composite function, where : 

***Solution***













***Exercise***

Evaluate each composite function, where : 

***Solution***











