***Solution*** ***Section* 1.3 – Infinite Limits**

***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***



***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***

 As  



***Exercise***

Find 

***Solution***

 As  



***Exercise***

Find 

***Solution***

 As  



***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***









***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***







***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***







***Exercise***

Find 

***Solution***







***Exercise***

Find 

***Solution***







***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***



***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***





***Exercise***

Find 

***Solution***







***Exercise***

Find 

***Solution***







***Exercise***

Find 

***Solution***







***Exercise***

Let 

1. For what values of *a*, if any, does  equal a finite number?
2. For what values of *a*, if any, does ?
3. For what values of *a*, if any, does ?

***Solution***



1. If , then





If , then





1.  for any number other than 3 or 4.

As , then  is always positive.



1.  for any number other than 3 or 4.

As , then  is always positive, and 

***Exercise***

Analyze  and 

***Solution***





