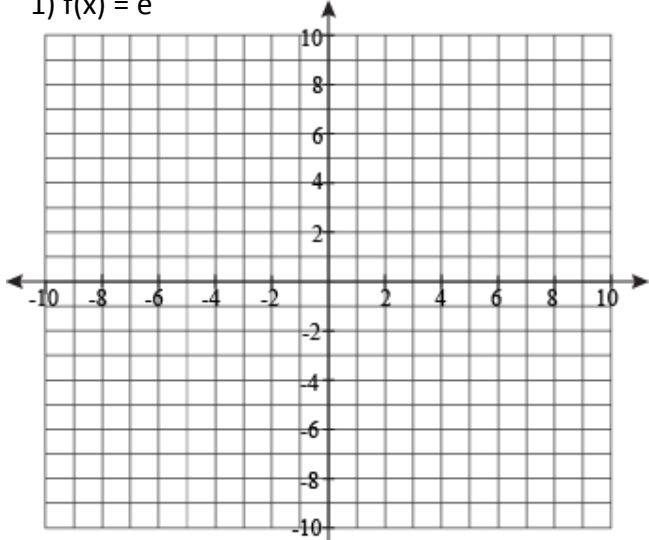


# Graphing Exponential and Log Functions

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

Graph each function, fill in the table of values, and identify the specified attributes of the graph.

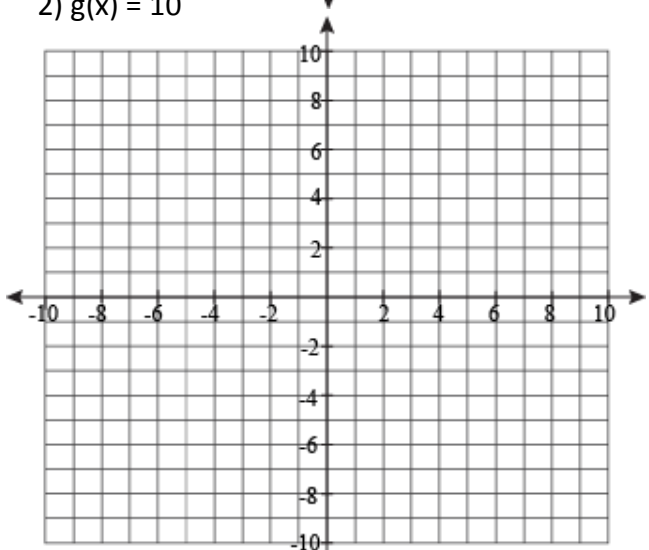
1)  $f(x) = e^x$



Domain: \_\_\_\_\_  
 Range: \_\_\_\_\_  
 x-intercept: \_\_\_\_\_  
 y-intercept: \_\_\_\_\_  
 Asymptote: \_\_\_\_\_  
 End behavior: \_\_\_\_\_  
 \_\_\_\_\_

| x  | f(x) |
|----|------|
| -2 |      |
| -1 |      |
| 0  |      |
| 1  |      |
| 2  |      |
| 3  |      |

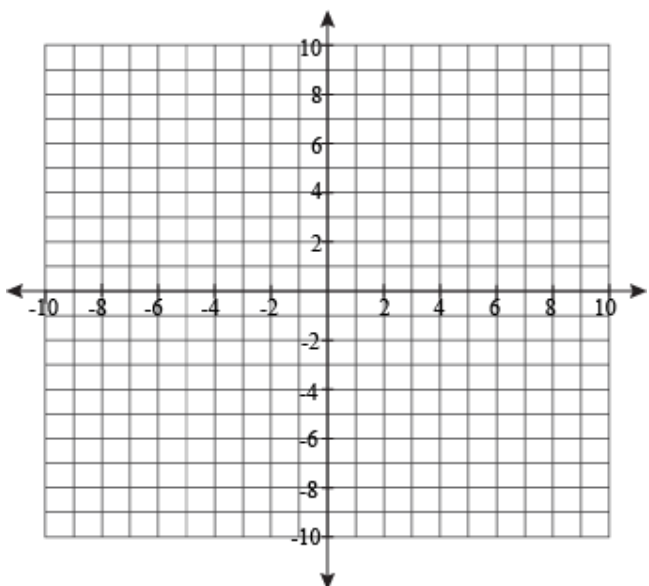
2)  $g(x) = 10^x$



Domain: \_\_\_\_\_  
 Range: \_\_\_\_\_  
 x-intercept: \_\_\_\_\_  
 y-intercept: \_\_\_\_\_  
 Asymptote: \_\_\_\_\_  
 End behavior: \_\_\_\_\_  
 \_\_\_\_\_

| x  | f(x) |
|----|------|
| -2 |      |
| -1 |      |
| 0  |      |
| 1  |      |
| 2  |      |
| 3  |      |

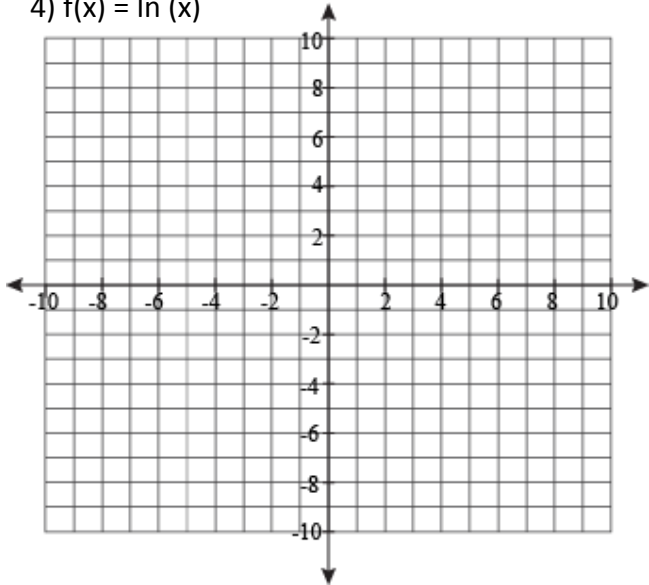
3)  $h(x) = \frac{1}{3}(2)^x - 7$



Domain: \_\_\_\_\_  
 Range: \_\_\_\_\_  
 x-intercept: \_\_\_\_\_  
 y-intercept: \_\_\_\_\_  
 Asymptote: \_\_\_\_\_  
 End behavior: \_\_\_\_\_  
 \_\_\_\_\_  
 Transformations: \_\_\_\_\_  
 \_\_\_\_\_

| x  | f(x) |
|----|------|
| -2 |      |
| -1 |      |
| 0  |      |
| 1  |      |
| 2  |      |
| 3  |      |

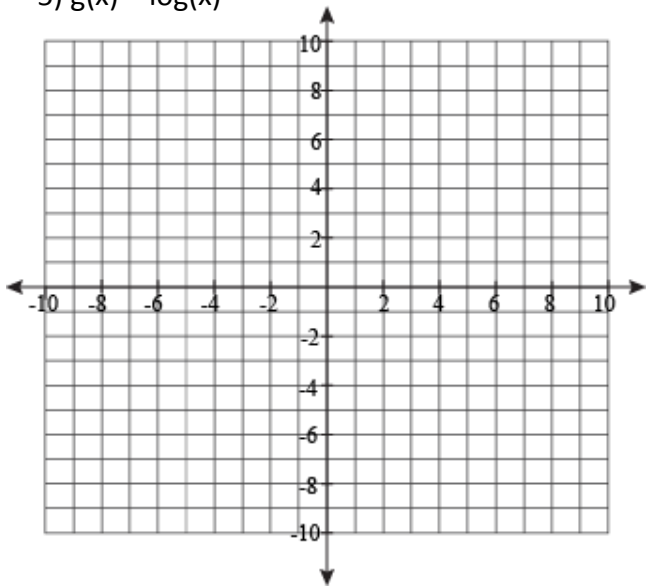
4)  $f(x) = \ln(x)$



Domain: \_\_\_\_\_  
 Range: \_\_\_\_\_  
 x-intercept: \_\_\_\_\_  
 y-intercept: \_\_\_\_\_  
 Asymptote: \_\_\_\_\_  
 End behavior: \_\_\_\_\_  
 \_\_\_\_\_

| x   | f(x) |
|-----|------|
| 1/2 |      |
| 1   |      |
| 2   |      |
| e   |      |
| 5   |      |
| 10  |      |

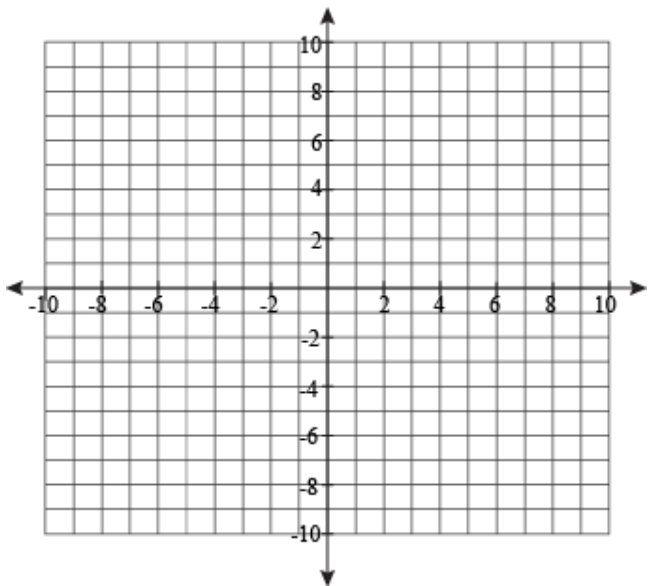
5)  $g(x) = \log(x)$



Domain: \_\_\_\_\_  
 Range: \_\_\_\_\_  
 x-intercept: \_\_\_\_\_  
 y-intercept: \_\_\_\_\_  
 Asymptote: \_\_\_\_\_  
 End behavior: \_\_\_\_\_  
 \_\_\_\_\_

| x   | f(x) |
|-----|------|
| 1/2 |      |
| 1   |      |
| 2   |      |
| 3   |      |
| 5   |      |
| 10  |      |

6)  $h(x) = -2\log_2(x + 2)$



Domain: \_\_\_\_\_  
 Range: \_\_\_\_\_  
 x-intercept: \_\_\_\_\_  
 y-intercept: \_\_\_\_\_  
 Asymptote: \_\_\_\_\_  
 End behavior: \_\_\_\_\_  
 \_\_\_\_\_  
 Transformations: \_\_\_\_\_  
 \_\_\_\_\_

| x  | f(x) |
|----|------|
| -1 |      |
| 0  |      |
| 1  |      |
| 2  |      |
| 6  |      |
| 10 |      |