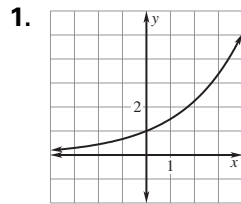


# Answer Key

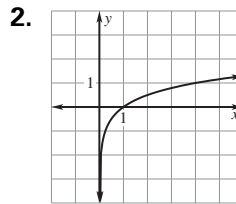
## Chapter 8 Review and Assessment

### Test C

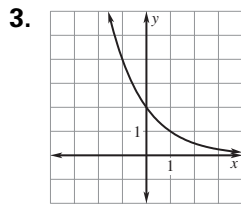
Graph 1–6 on graph paper



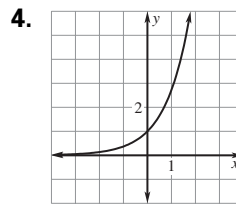
Domain:  
all real numbers  
Range:  $y > 0$



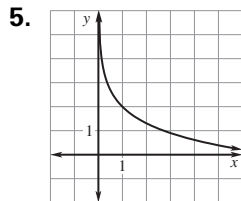
Domain:  $x > 0$   
Range:  
all real numbers



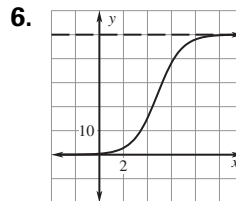
Domain:  
all real numbers  
Range:  $y > 0$



Domain:  
all real numbers  
Range:  $y > 0$



Domain:  $x > 0$   
Range:  
all real numbers



Domain:  
all real numbers  
Range:  $y > 0$

7.  $e^4$  8.  $9e^2$  9.  $-3$  10. 5 11.  $-2$   
 12.  $-2$  13.  $-3$  14. 0 15. 2 16. 625  
 17. 2; ( $-2$  is extraneous)  
 18. 8; ( $-4$  is extraneous) 19. 2  
 20. exponential decay 21.  $y = 8^x$  22. 4.428  
 23. 1.176 24.  $\log_4 24$  25.  $\ln 2 + \ln y - \ln x$   
 26. 2.481 27.  $y = 3^x$  28.  $y = 3.227x^{0.631}$   
 29.  $y = 28,000(.92)^t$ ; \$18,454 30. \$1053.22