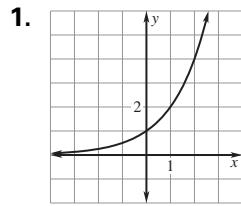


# Answer Key

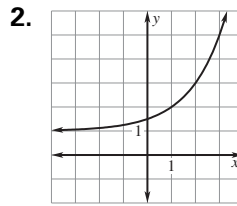
## Chapter 8 Review and Assessment

### Test A

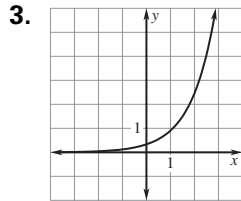
Graph 1–6 on graph paper



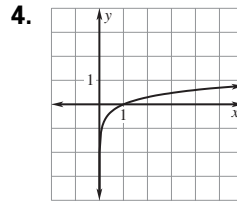
Domain:  
all real numbers  
Range:  $y > 0$



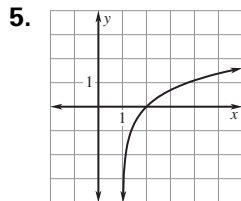
Domain:  
all real numbers  
Range:  $y > 1$



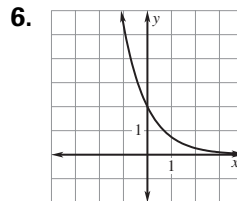
Domain:  
all real numbers  
Range:  $y > 0$



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



Domain:  $x > 1$   
Range:  
all real numbers



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

7.  $e^5$  8.  $\frac{3}{e}$  9. 4 10. 3 11. -3 12. -1

13. -2 14. 0 15. 1 16. -4 17. 5 18. 3

19. 4 (-8 is extraneous) 20. exponential

growth 21.  $y = 5x$  22. 1.398 23. -1.079

24.  $\log 7x^3$  25.  $\ln 3 + \ln x + \ln y$  26. 1.430

27.  $y = \frac{1}{4} \cdot 2^x$  28.  $y = 2x^{1/2}$

29.  $y = 20,000(.90)^t$ ; \$18,000 30. \$1127.50