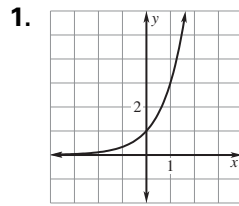


# Answer Key

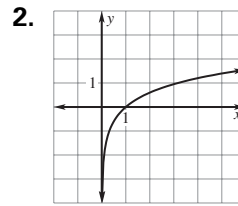
## Chapter 8 Review and Assessment

### Test B

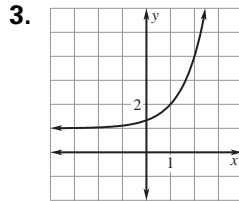
Graph 1–6 on graph paper



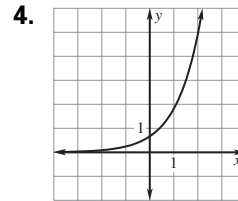
Domain:  
all real numbers  
Range:  $y > 0$



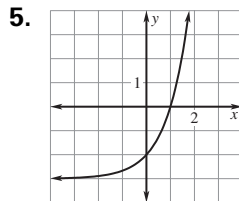
Domain:  
all real numbers  
Range:  $x > 0$



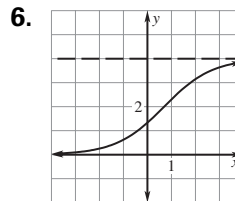
Domain:  
all real numbers  
Range:  $y > 1$



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



Domain:  
all real numbers  
Range:  $y > -3$



Domain:  
all real numbers  
Range:  $0 < y < 4$

7.  $-e$  8.  $-\frac{8}{e}$  9.  $-2$  10.  $5$  11.  $e^7$

12.  $-4$  13.  $-4$  14.  $0$  15.  $3$  16.  $16$

17.  $1$  18.  $\ln 5$  19.  $6$  ( $-2$  is extraneous)

20. exponential growth 21.  $y = 7^x$

22.  $6.644$  23.  $-0.903$  24.  $\log \frac{7}{b}$

25.  $\ln 5 + \ln x - \ln 2$  26.  $3.169$

27.  $y = 100\left(\frac{1}{2}\right)^x$  28.  $y = 2.583x^{0.6309}$

29.  $y = 18,000(.88)^t$ ; \$13,939 30. \$1161.82