

# Answer Key

## Practice B

1. 148.413   2. 0.717   3. 0.247   4. 4.113  
 5. exponential growth   6. exponential decay  
 7. exponential decay   8. exponential growth  
 9. exponential decay   10. exponential growth  
 11.  $\frac{1}{e^8}$    12.  $3e^4$    13.  $\frac{2}{e}$    14.  $16e^6$    15.  $-12e^3$   
 16.  $2e^{2x+3}$    17.  $8e^{2x}$    18.  $e$    19.  $\frac{1}{e^x}$

20.

$x$	-2	-1.5	-1	0
$f(x)$	0.27	0.45	0.74	2

$x$	1	1.5	2
$f(x)$	5.44	8.96	14.78

21.

$x$	-2	-1.5	-1	0
$f(x)$	14.78	8.96	5.44	2

$x$	1	1.5	2
$f(x)$	0.74	0.45	0.27

22.

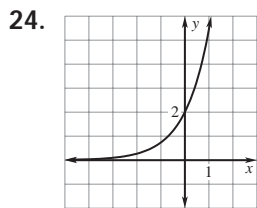
$x$	-2	-1.5	-1	0
$f(x)$	3.02	3.05	3.14	4

$x$	1	1.5	2
$f(x)$	10.39	23.09	57.60

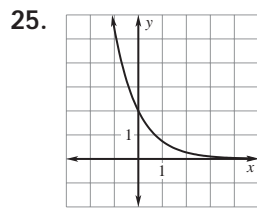
23.

$x$	-2	-1.5	-1	0
$f(x)$	401.43	88.02	18.09	-1

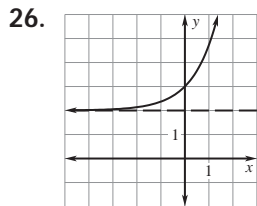
$x$	1	1.5	2
$f(x)$	-1.95	-1.99	-2.00



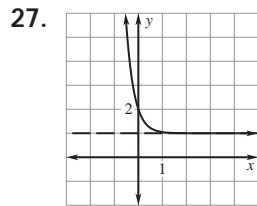
$y = 0$



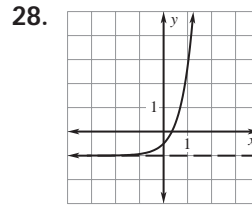
$y = 0$



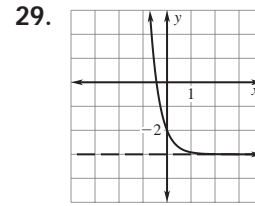
$y = 2$



$y = 1$



$y = -1$



$y = -3$

30. \$1972.34   31. \$1978.47

32. Continuous compounding