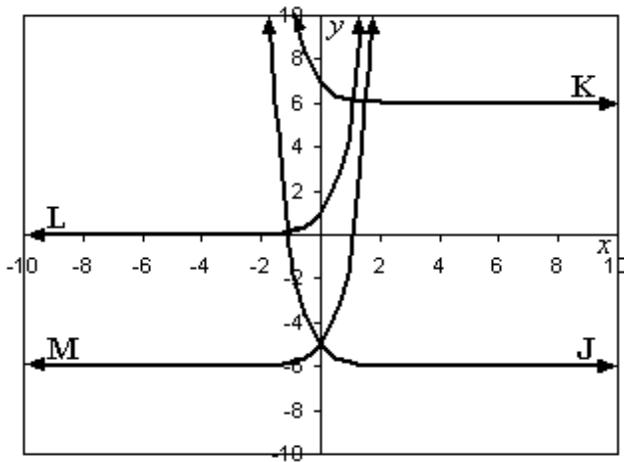


Instructions:

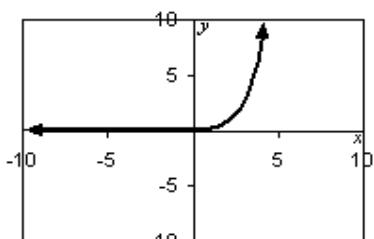
Read each question carefully and select the correct answer.

1. Which graph represents the exponential function $y = 5^{-x} + 6$?

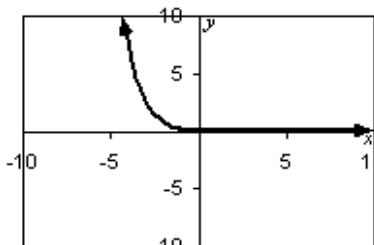


- A. J
- B. K
- C. L
- D. M

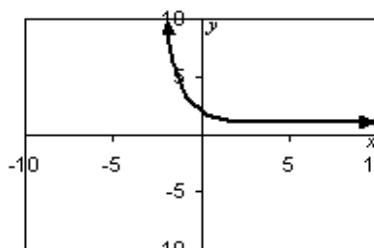
2. Which graph represents the exponential function $y = 0.1(3)^{-x}$?



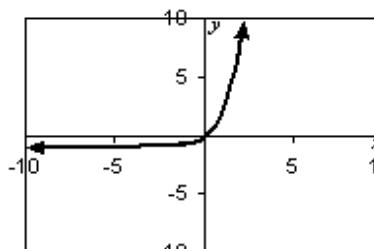
A.



B.

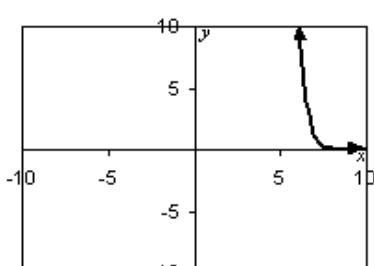
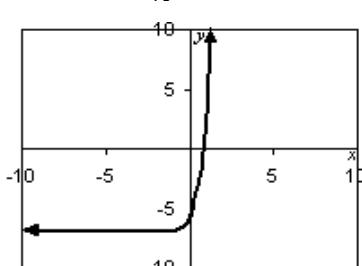
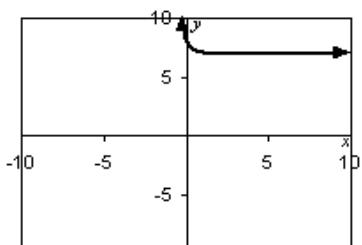
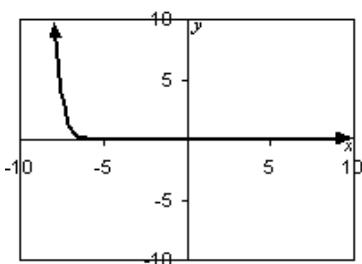


C.

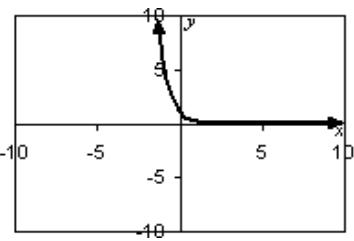


D.

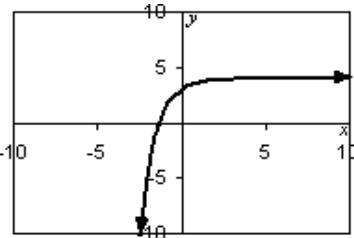
3. Which graph represents the exponential function $y = 10^x - 7$?



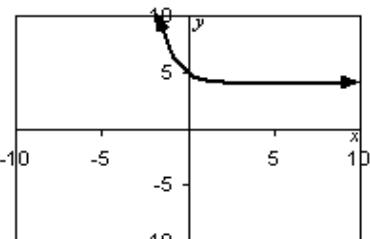
4. Which graph represents the exponential function $y = 4 + 3^{-x}$?



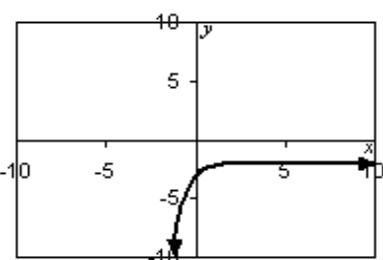
A.



B.



C.



D.

5. Simplify.

$$16^{\frac{3}{4}}$$

- A. 4
B. 2
C. 8
D. 12

6. Simplify.

$$49^{\frac{1}{2}}$$

- A. 2,401
B. $24\frac{1}{2}$
C. 98
D. 7

7. Simplify.

$$81^{\frac{1}{4}}$$

- A. 3
B. 9
C. 324
D. $\frac{81}{4}$

8. Simplify.

$$64^{\frac{1}{2}}$$

- A. 4,096
B. 128
C. 8
D. 32

9. Simplify.

$$(4^{\circ}) \cdot (\frac{1}{2^{-1}}) \cdot (2 \cdot 3)^{\circ} + 5^{-1}$$

A. $\frac{24}{5}$	B. 10
C. 5	D. $\frac{11}{5}$

- A. A
B. B
C. C
D. D

10. Simplify.

$$(-3a^4 b^6 c^3)^2$$

- | | |
|----|----------------------|
| A. | $6a^8 b^{12} c^6$ |
| B. | $9a^8 b^{12} c^6$ |
| C. | $9a^{16} b^{36} c^9$ |
| D. | $-6a^8 b^{12} c^6$ |

- A. A
B. B
C. C
D. D

11. Simplify.

$$(x^0) \cdot (x^3)$$

- | | |
|----|-----------------|
| A. | $\frac{1}{x^3}$ |
| B. | 0 |
| C. | x^3 |
| D. | x^{23} |

- A. A
B. B
C. C
D. D

12. Simplify.

$$(6x^3y^2)(3x^2y^5)$$

- | | |
|----|-------------------|
| A. | $18x^5y^7$ |
| B. | $18x^6y^{10}$ |
| C. | $18y^{-3}$ |
| D. | $\frac{18x}{y^3}$ |

- A. A
B. B
C. C
D. D