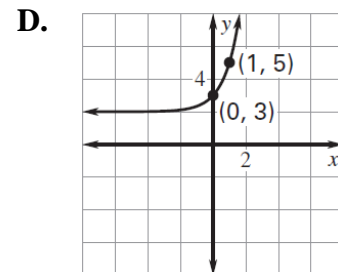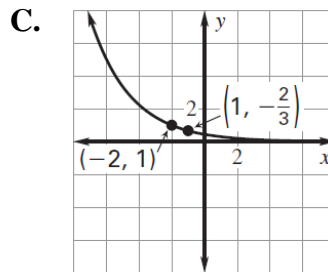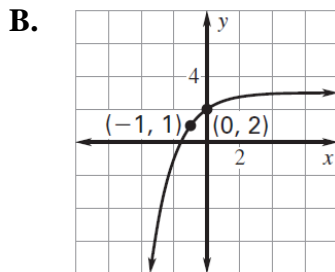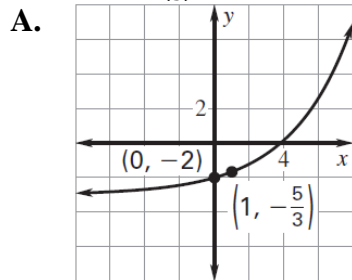**Match the function with its graph.**

1. $f(x) = \left(\frac{2}{3}\right)^{x+2}$

2. $f(x) = 3^x + 2$

3. $f(x) = \left(\frac{4}{3}\right)^x - 3$

4. $f(x) = -\left(\frac{1}{2}\right)^x + 3$

A.

B.

C.

D.

Graph the function. Then state the domain and range.

5. $f(x) = 2^{x+1} - 3$
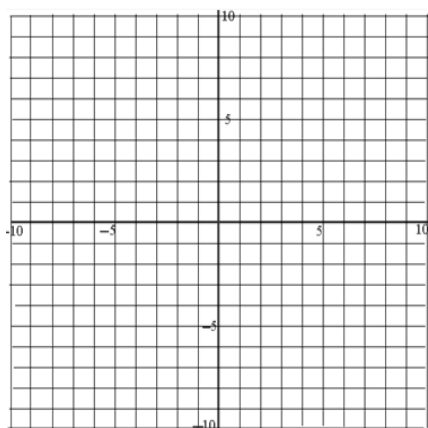
6. $g(x) = -\left(\frac{1}{3}\right)^{x-4}$
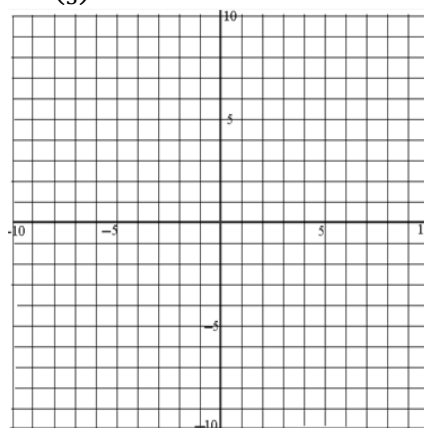
Domain: _____

Range: _____

Domain: _____

Range: _____

7. $h(x) = -2 * 4^x + 5$
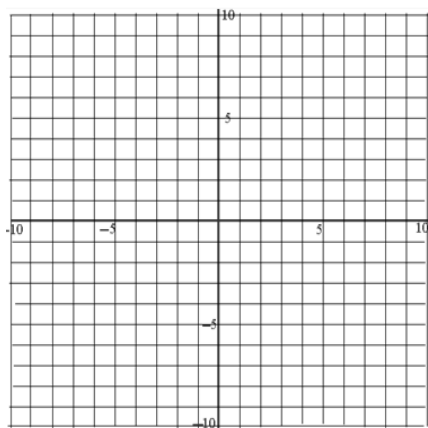
8. $y = 3e^{x-2} + 1$
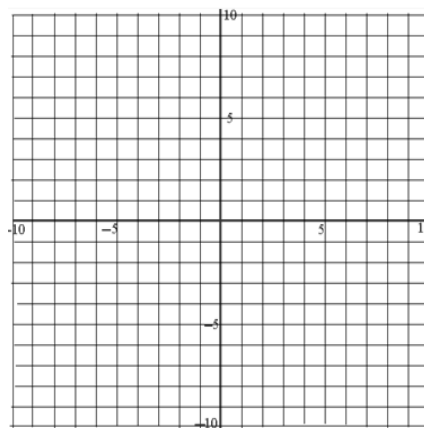
Domain: _____

Range: _____

Domain: _____

Range: _____

For Exercises 9-10, use the following information.
You buy a new car for $22,500. The value of the car *decreases* by 25% each year.

9. Write an exponential decay model giving the car's value, A, after t years.

10. What is the value of the car after three years?

_____

For Exercises 11-14, use the following information.
You deposit $3500 in an accont that earns 1.3% annual interest. Find the balance after 5 years if the interest is compounded with the given frequency.

11. Annually

_____

12. Daily

_____

13. Continuously

_____

14. Which is the best deal? By how much?

_____