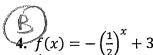
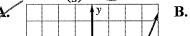
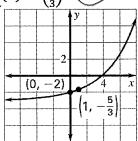
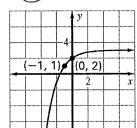
Match the function with its graph.

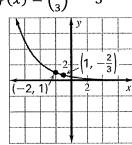
- $1. \ f(x) = \left(\frac{2}{3}\right)^{\frac{1}{3}}$
- $3 + (x) = \left(\frac{4}{3}\right)^x 3$

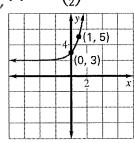






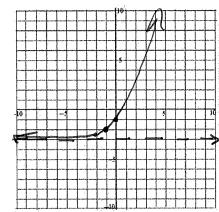






Graph the function. Then state the domain and range.

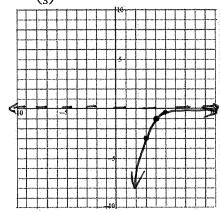
5.
$$f(x) = 2^{x+1} - 3$$



Domain:

Range: $\sqrt{>-3}$

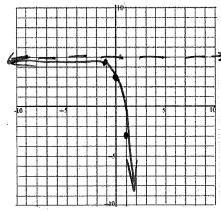
6.
$$g(x) = -\left(\frac{1}{3}\right)^{x-4}$$



Domain:

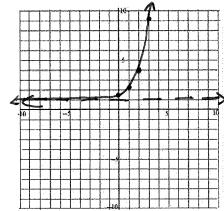
Range: $\underline{\qquad}$

7.
$$h(x) = -2 * 4^x + 5$$



Domain:

8.
$$y = 3e^{x-2} + 1$$



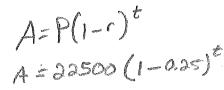
Domain:

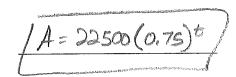
Range: __

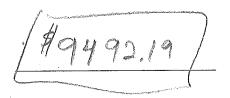
For Exercises 9-10, use the following information.

You buy a new care for \$22, 500. The value of the car decreases by 25% each year.

- 9. Write an exponential decay model giving the car's value after *t* years.
- 10. What is the value of the car after three years?



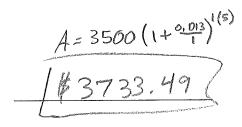




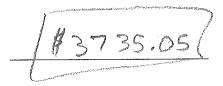
For Exercises 11-14, use the following information.

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.

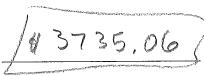
11. Annually



12. Daily



13. Continuously



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

Continuously by \$1.57