$\qquad$

## Match the function with its graph.

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

B.

C.


Graph the function. Then state the domain and range.

domain: $\qquad$
range: $\qquad$
6.) $f(x)=-3^{x+1}$

domain: $\qquad$
range: $\qquad$
5.) $f(x)=2^{x}+1$

domain: $\qquad$
range: $\qquad$
7.) $f(x)=2^{x-2}-3$

domain: $\qquad$ range: $\qquad$
8.) $f(x)=-2\left(3^{x+1}\right)+2$
9.) $f(x)=\left(\frac{3}{2}\right)^{x}-2$

domain: $\qquad$
range: $\qquad$

domain: $\qquad$
range: $\qquad$

## In Exercises 10-12, use the following information.

You deposit $\$ 3500$ in an account that earns $2.5 \%$ annual interest. Find the balance after one year if the interest is compounded with the given frequency.
10.) annually
11.) quarterly
12.) monthly

## In Exercises 13-15, use the following information.

From 1990 to 2000, the population of California can be modeled by $P=29,816,591(1.0128)^{t}$ where $t$ is the number of years since 1990.
13.) What was the population in 1990 ?
14.) What is the growth factor and annual percent increase?
15.) Estimate the population in 2007.

