Exponential functions — Finding f(x)

Name: _____ Date: _____

Evaluate each exponential function at the value given.

1. $f(x) = 4 \cdot 4^x$ $f(4) =$ _____

2. $f(x) = 5 \cdot 10^x$ $f(0) =$ ___

3. $f(x) = 4 \cdot 6^x$ $f(3) =$ _____

4. $f(x) = 2 \cdot 6^x$ $f(0) =$ ___

5. $f(x) = 8 \cdot 3^x$ $f(3) =$ _____

6. $f(x) = 10 \cdot 9^x$ $f(2) =$ _____

7. $f(x) = 2 \cdot 4^x$ $f(1) =$ ___

8. $f(x) = 12 \cdot 3^x$ $f(5) =$ _____

9. $f(x) = 5 \cdot 9^x$ $f(0) =$ ___

10. $f(x) = 5 \cdot 2^x$ $f(5) =$ _____

Exponential functions · Finding f(x) — Answer key

1. $f(x) = 4 \cdot 4^x \rightarrow f(4) = 1024$
2. $f(x) = 5 \cdot 10^x \rightarrow f(0) = 5$
3. $f(x) = 4 \cdot 6^x \rightarrow f(3) = 864$
4. $f(x) = 2 \cdot 6^x \rightarrow f(0) = 2$
5. $f(x) = 8 \cdot 3^x \rightarrow f(3) = 216$
6. $f(x) = 10 \cdot 9^x \rightarrow f(2) = 810$
7. $f(x) = 2 \cdot 4^x \rightarrow f(1) = 8$
8. $f(x) = 12 \cdot 3^x \rightarrow f(5) = 2916$
9. $f(x) = 5 \cdot 9^x \rightarrow f(0) = 5$
10. $f(x) = 5 \cdot 2^x \rightarrow f(5) = 160$