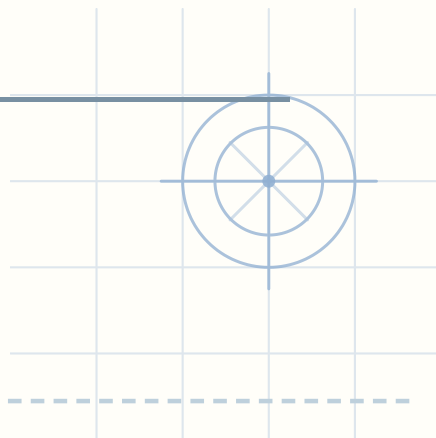


Exponential functions — Values and exponents

Name: _____

Date: _____

Evaluate each exponential function, or find the missing x .



1 $f(x) = 4 \cdot 6^x$ $f(x) = 144$, $x =$ _____

2 $f(x) = 4 \cdot 9^x$ $f(1) =$ _____

3 $f(x) = 4 \cdot 5^x$ $f(x) = 100$, $x =$ _____

4 $f(x) = 10 \cdot 6^x$ $f(x) = 360$, $x =$ _____

5 $f(x) = 3 \cdot 5^x$ $f(0) =$ _____

6 $f(x) = 6 \cdot 8^x$ $f(x) = 384$, $x =$ _____

7 $f(x) = 4 \cdot 2^x$ $f(x) = 64$, $x =$ _____

8 $f(x) = 7 \cdot 3^x$ $f(3) =$ _____

9 $f(x) = 5 \cdot 10^x$ $f(0) =$ _____

10 $f(x) = 10 \cdot 8^x$ $f(2) =$ _____



Exponential functions · Values and exponents — Answer key

1. $f(x) = 4 \cdot 6^x$, $f(x) = 144 \rightarrow x = 2$

2. $f(x) = 4 \cdot 9^x \rightarrow f(1) = 36$

3. $f(x) = 4 \cdot 5^x$, $f(x) = 100 \rightarrow x = 2$

4. $f(x) = 10 \cdot 6^x$, $f(x) = 360 \rightarrow x = 2$

5. $f(x) = 3 \cdot 5^x \rightarrow f(0) = 3$

6. $f(x) = 6 \cdot 8^x$, $f(x) = 384 \rightarrow x = 2$

7. $f(x) = 4 \cdot 2^x$, $f(x) = 64 \rightarrow x = 4$

8. $f(x) = 7 \cdot 3^x \rightarrow f(3) = 189$

9. $f(x) = 5 \cdot 10^x \rightarrow f(0) = 5$

10. $f(x) = 10 \cdot 8^x \rightarrow f(2) = 640$

