

6.1

Puzzle Time

What Happens When You Annoy A Clock?

Write the letter of each answer in the box containing the exercise number.

Evaluate the expression for $x = 3$.

1. 5^x

2. $\left(\frac{1}{2}\right)^x$

3. $(1.5)^x$

4. $(0.2)^x$

5. $\left(\frac{5}{2}\right)^x$

6. $2 \cdot 3^x$

7. $9 + 2^x$

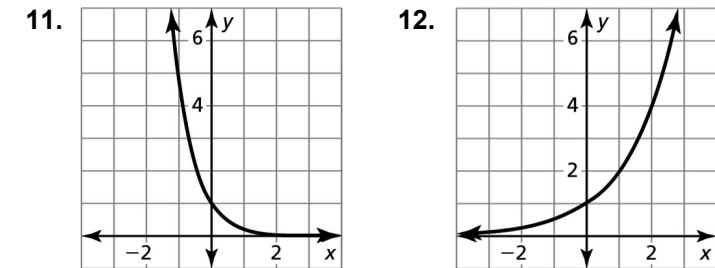
8. $4^x - 1$

Determine whether the function represents *exponential growth* or *exponential decay*.

9. $y = \left(\frac{3}{2}\right)^x$

10. $y = \left(\frac{1}{4}\right)^x$

Match the graph with its function.



Answers

- F. $y = (0.2)^x$

I. 15.625

Y. 125

T. exponential growth

O. $\frac{1}{8}$

F. $y = 2^x$

T. 0.008

C. 54

I. 63

U. 3.375

O. exponential decay

K. 17

1	2	3		4	5	6	7		8	9		10	11	12