Mr. Eby is the coolest teacher ever!

A. True
B. False
Is the following relation a function?

A. Yes  
B. No

![Diagram showing a relation where each carat weight does not map to a single price, indicating it is not a function.](image)
An exponential function is best described as having:

A. A constant rate of growth  
B. A constant relative rate of growth  
C. The letter $e$ in the formula  
D. NOTA
An air-freshener starts with 30 grams and evaporates. Write a formula for the quantity, $Q$ grams, of air-freshener remaining $t$ days after the start if it decreases by 3 grams per day.

A. $Q(t) = -3t$
B. $Q(t) = 30-3t$
C. $Q(t) = 30(-3)^t$
D. NOTA
What is \( \ln(e^{42}) \)

- ✓ 42.0
- ✗ 0.1
What has happened to the function $f(x-2)+1$

A. Up 2 and right 1

B. Down 2 and right 1

C. Left 2 and up 1

D. Right 2 and up 1

D. Right 2 and up 1 is correct.
What has happened to the function $f(x-1)-2$

A. Up 2 and right 1
B. Down 2 and right 1
C. Left 2 and up 1
D. Right 2 and up 1

Correct answer: B. Down 2 and right 1
What has happened to the function $f(x+1)-2$

A. Down 2 and right 1
B. Down 2 and left 1
C. Left 2 and up 1
D. Right 2 and up 1