

13. Use this function to answer the question.

$$f(x) = \frac{2}{x} + 3$$

What value is NOT included in the domain of the inverse of this function?

- A. 0
- B. 1
- C. 2
- D. 3

plug in and see what
doesn't work

$A=0 \rightarrow$ you can't divide by 0
so A is answer

14. Use these functions to answer the question.

$$f(x) = 4x - 2$$

$$g(x) = \frac{x+2}{4}$$

$$f(g(x)) = x$$

Which statement about the functions $f(x)$ and $g(x)$ is true?

- A. They are inverse functions because $f(g(x))$ is not equal to 0.
- B. They are inverse functions because $f(g(x))$ is equal to x .
- C. They are not inverse functions because $f(g(x))$ is not equal to 0.
- D. They are not inverse functions because $f(g(x))$ is equal to x .

$f(g(x))$ is composition

composition proves if equations are inverses

if $f(g(x)) = x$ they are inverses

if $f(g(x)) \neq x$ they are not inverses