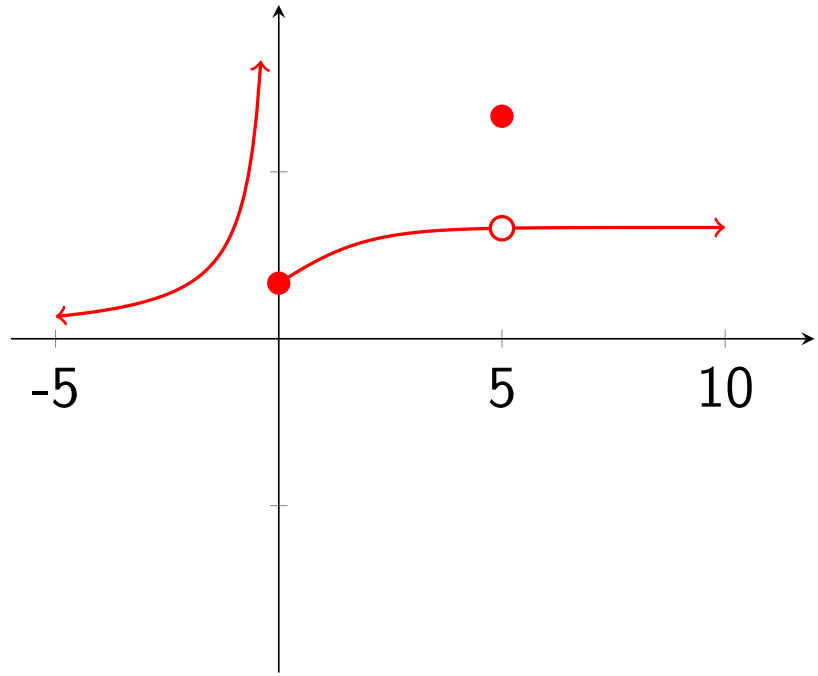
1. Which of the following accurately describes the function f whose graph is depicted to the right?



(A) f is continuous from the right at 0.

(B) f is continuous from the left at 0.

(C) f is continuous from the right at 5.

(D) f is continuous from the left at 5.

2. True or False?

The function f defined by

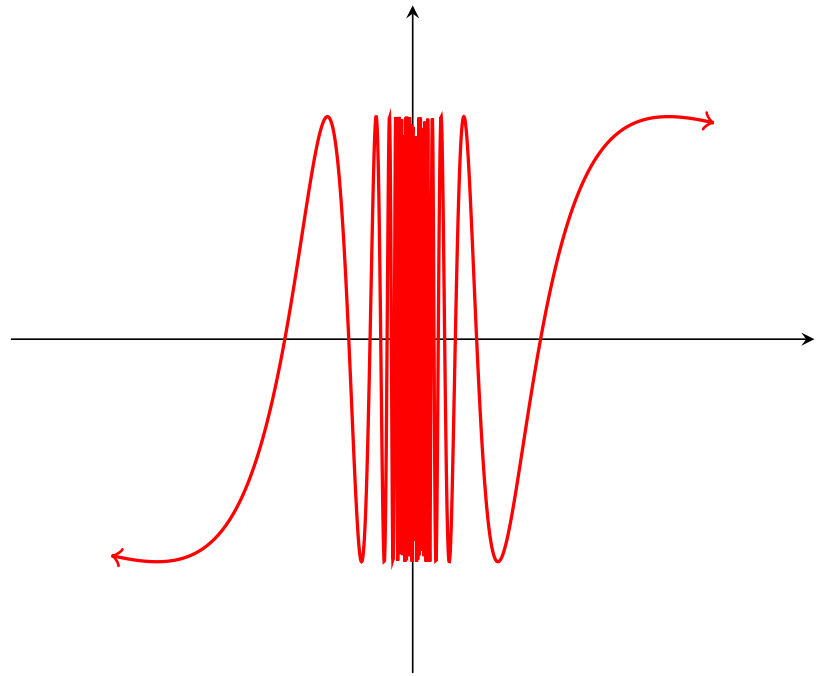
$$f(x) = \frac{1}{\sin(x)}$$

has infinitely many infinite discontinuities.

The graph of the function

$$f(x) = \sin(1/x)$$

is depicted to the right.



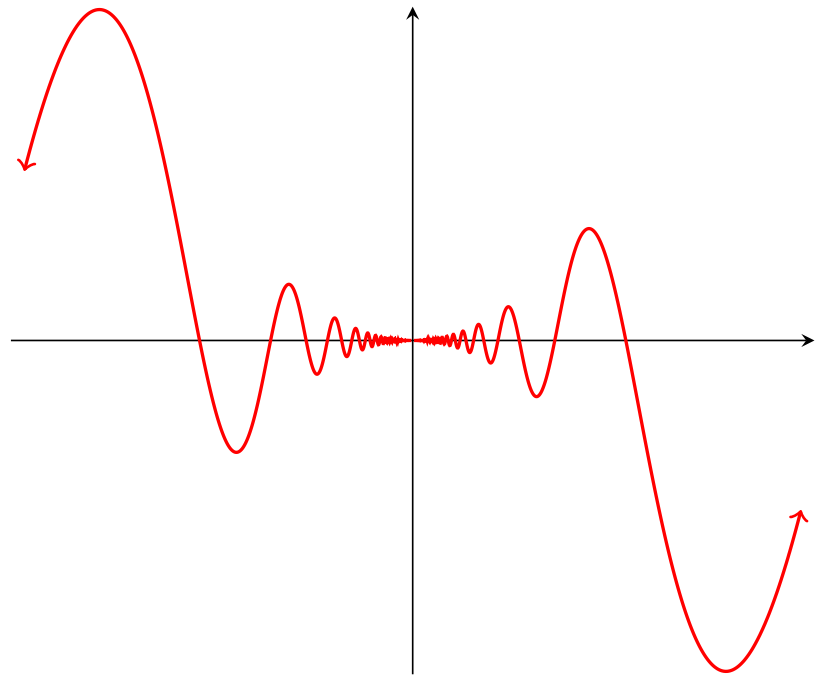
3. True or False?

$\lim_{x \to 0} \sin(1/x)$ exists.

The graph of the function

$$f(x) = x^2 \sin(1/x)$$

is depicted to the right.



4. True or False?

$\lim_{x \to 0} f(x)$ exists.

5. True or False?

The function f given by

$$f(x) = \ln(9 - x^2)$$

is continuous on its domain.

5. True or False?

The function f given by

$$f(x) = \ln(9 - x^2)$$

is continuous on its domain.

Follow-up. What is this function's domain?