

# Trigonometric Functions

## Question

Consider the functions

$$f(x) = b$$

and

$$g(x) = 5 \cos(x - 5) + 8.$$

For which values of  $b$  will the equation  $f(x) = g(x)$  have real solutions?

- (a)  $-8$
- (b)  $-3$
- (c)  $0$
- (d)  $3$

Answer: d. 3