Trigonometric Functions

Question

Let

$$g(x) = A \sin B(x - C) + D.$$

Which parameter(s) determines whether or not g is an odd function?

(a) A only

(b) A and B

(c) C only

(d) C and D

(e) B and C

Answer: d. Choices C and D are those that translate the function; these affect symmetry about the origin. Might also discuss relevance of a horizontal compression followed by a horizontal translation.