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Calculus Worksheet: Even and Odd Functions (1)

1. f is an even function and g is an odd function.

   Show that

   a) $(f \cdot g)(x)$ is an odd function.

   b) $(f / g)(x)$ is an odd function.

2. Show that $f(|x|)$ is an even function.

3. Show that if f and g are even functions, then $(f + g)$ is also even.

4. Show that if f and g are odd functions, then $(f + g)$ is also odd.