F.BF.B.3: Even and Odd Functions 2

1 Algebraically determine whether the function $j(x) = x^4 - 3x^2 - 4$ is odd, even, or neither.

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Answer Section

1 ANS:
$j(-x) = (-x)^4 - 3(-x)^2 - 4 = x^4 - 3x^2 - 4$ Since $j(x) = j(-x)$, the function is even.

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