



## Item Navigation

## Even and Odd Functions

An even function of  $x$  satisfies  $f(-x) = f(x)$ . An odd function of  $x$  satisfies  $f(-x) = -f(x)$ . Prove the following symmetry theorems:

- (a) If  $f(x)$  is an even function of  $x$ , then  $f'(x)$  is an odd function of  $x$ .
- (b) If  $f(x)$  is an odd function of  $x$ , then  $f'(x)$  is an even function of  $x$ .

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