



## Item Navigation

## Chain Rule

Let  $f(x, y) = e^{xy}$ , with  $x = r \cos \theta$  and  $y = r \sin \theta$ . Compute the partial derivatives  $\partial f / \partial r$  and  $\partial f / \partial \theta$  in two ways:

- (a) Use the chain rule on  $f = f(x(r, \theta), y(r, \theta))$ ;
- (b) Eliminate  $x$  and  $y$  in favor of  $r$  and  $\theta$  and compute the partial derivatives directly.

✓ **Completed**

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